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Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## The Genesis of the Carolina Mill Strikes

**A ROTTEN** apple placed in a barrel of sound apples soon causes all the apples to become rotten.

When the New Bedford cotton mill strike was at its worst last year, the strikers, led by radical leaders, were found one day to have their pockets loaded with stones, there being no stones immediately available around some of these mills with which the windows might be broken. This is but one instance which led to a quiet investigation as to the strike movement, its origin and its purpose. It was learned that the communistic element fomenting the strike had definitely determined to bring on similar strikes in the cotton mills of the South. That New Bedford strike lasted for about six months and ended in a compromise, but back of it all was the determination to bring on such strikes in the South for the express benefit of these communistic strikers and leaders in New England.

Ernest S. Harrington, long identified with all the ramifications of the cotton industry, mingled with the strikers to find out what their methods were and what they had in mind. A lengthy conversation with the MANUFACTURERS RECORD gave many details of what he learned and has now been followed by a letter in which Mr. Harrington introduces some of the facts which he previously detailed, though not as completely as in his personal statement.

One of the very pertinent points emphasized is that the radical element had a well mapped-out plan and that six families had been sent to North Carolina to sow the seeds of discontent. These families, supported by the communistic leaders, had been planted at different points in the state. Gastonia was especially singled out for attention. One radical family had already reached that city. It was the intention of the leaders in this movement to have these different families quietly move among the mill operatives, plant the seeds of communistic hatred of employers, and gradually bring about dissatisfaction and encourage strikes. The success of the movement in Gastonia and in some other places in North Carolina, indicates what is being done by the radical leaders in this New England communistic scheme to disrupt the labor conditions of the South.

Here and there a radical family, able to talk communism and radicalism, is quietly placed in some mill center, supported if need be by the communistic labor unions, and told to work discretely but industriously in arousing a strike spirit. Those who have not appreciated the seriousness of this effort on the part of radicals to bring about general strikes among cotton mill operatives and other laborers in the South, need to study the matter more fully than they have done.

In the course of his letter to the MANUFACTURERS RECORD,

from 181 Angell Street, Providence, R. I., and following up some of the statements he had made in person, Mr. Harrington writes as follows:

"About a year ago, a strike among textile workers was in progress in New Bedford. It was a long drawn out struggle, lasting some six months, and ended in a compromise. Many there are, who know something of textile conditions both North and South, who believed the outlook for New England spinners to be none too roseate and who could but wonder why, when the facts regarding wages and hours of labor in New Bedford were compared with those in force in the South, the agitators were quite so vitriolic in their denunciation of the New England spinners, and so full of hatred for the mill owners. Mill shares had steadily shrunk in value, dividends had decreased or been passed entirely, and reports of mills moving their entire organizations to the South had ceased to become startling news. The point of conjecture appeared to be which mill would move next, rather than any question of whether or not more would migrate.

"Then came the New Bedford strike, called by the old line Labor Union, the Legitimates as it were, and which to some cotton men seemed not wholly unlike the picture of a man feeling none too well, but struggling along the best he could, being thoroughly pummelled by a presumed-to-be well-wisher, who honestly enough, thought a good beating would hasten the patient's recovery. Be that as it may, another interest was soon injected into the fray and from this source, the Textile Mill Committee, came blows below the belt and calculated to kill, rather than to cure. From the United Textile Workers the thumps might have been intended as a helpful massage, but no such kindly intent appeared back of the blows administered by the Textile Mill Committee, or whatever name the radical strikers chose to take. The one is presumed to have honestly desired a wage adjustment, while the other, it is believed, struck deeper, even to the advocacy of a new form of Government.

"The writer spent a couple of weeks in New Bedford during the strike, saw hundreds of picketers, some with the general demeanor of martyrs and others who hardly knew what it was all about, though quite evidently thinking the whole affair to be something of a joke. Agitators agitated to their heart's content, and from the wild enthusiasm they aroused, one with curiosity could but wish they would talk in English. A graduate of Harvard was in New Bedford, of course. Not that Harvard turns out more men with communistic tendencies than do other colleges, but this particular product, who gained notoriety during the Passaic trouble, can be counted on enthusiastically to appear wherever industrial trouble exists and do his best to make a bad matter worse. A dentist from Providence put in appearance, and explained how the

United States should be run, first proclaiming that everything that is, is wrong, politics and religion included.

"It never has been difficult to convince a failure that misfortune is not of his own making, nor is it hard to make a man believe that he is being frightfully underpaid. The amount of his remuneration seemingly bears but scant relation to his firm conviction that he really should be paid more for what he does, and therefore it is quite easy to understand why textile workers, who are assuredly not overpaid, respond more readily to tirades from agitators than they do to arguments from mill owners. As buzzards fly to carrion with unerring accuracy, so do agitators swiftly congregate whenever industrial strife appears.

"The whole tribe of disturbers met in New Bedford, atheists, communists, anarchists, until one lost sight of what the fundamental question was about, and became decidedly concerned over acts of violence and threats to overthrow our Government, and could but wonder why a street-corner tirade against Christianity could be expected to do other than alienate sympathy. During the whole strike an ominous rumble was noted, interjected by the Radicals, carried on by many honest persons who were misinformed and bearing no relation to the wage dispute, and being entirely at variance with ideas and ideals expressed by many leaders of the conservative wing of the Labor Unionists.

"While in New Bedford, the writer was informed that strenuous attempt would be made to thoroughly unionize the South. This endeavor from the United Textile Workers had been well under way for some time; so the information was no special revelation. From another source the writer learned that the radical wing had a well mapped-out plan for activities in the South, and that six families had already been sent to North Carolina, to sow the seeds of discontent; not to adjust differences that perhaps should be adjusted, but to find in low wages an excuse to breed hatred for the existing order, or 'Capitalism' as they term it, and to make employe hate employer so heartily that the field would be fertile for communistic uprisings, when the time should be opportune. Gastonia, N. C., was one point specifically mentioned as a city to which a radical family had already been sent. The recent disturbance there might seem to be somewhat in evidence of the contributing activity by the energetic family in question.

"Forces are strenuously at work that would destroy our religion and our Government. It is no stretch of the imagination that sees a keen and persistent desire on the part of a growingly impressive number to make our religion seem impossible, and our form of government objectionable. As those destructive influences are active, so should we be, and just as surely as our institutions were worth striving for, so are they worthy of a struggle now to keep them intact.

"Much that cost blood to secure has been handed to us, and if we sleep on our rights we will merely prove ourselves unworthy of that trust. We are in a period when our worthiness is indeed being tested. If each individual sits idly by and relies on an indefinite someone, somewhere, to keep guard, then our religion is indeed in unworthy hands and our Government without a protector, for the enemy is in truth at the gates and the guns against us have spoken."

#### ON THE WRONG TACK.

**E**XTRACTS from an address delivered before the Missouri State Convention of the Democratic Women's Law Enforcement League by M. D. Lightfoot of Springfield, Mo., chairman of the National Constitutional Democratic Committee, vigorously attack the opposition of John J. Raskob during the Democratic campaign and charge him with the responsibility for defeat. Mr. Lightfoot likewise proposed a

great downward revision in important tariff schedules that affect agriculture, and aggressively opposes the building of a Nicaragua Canal.

Possibly Mr. Lightfoot does not fully realize that the Nicaragua Canal would be of such vast benefit to the South that some sections of the country will probably oppose it because of the great advantages it would give to this section in a closer water haul between the Atlantic and Gulf and the Pacific Coast than can be had via the Panama Canal. Of all sections the South ought to be most aggressively in favor of a Nicaragua Canal.

Mr. Raskob and his bitter hostility to prohibition deserves all the criticism that Mr. Lightfoot can give, but the South does not want and should not have a downward revision of any part of the tariff; rather it should demand a heavy revision upward and an entirely new tariff on many things which now come in without duty.

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#### THE FEDERAL GOVERNMENT'S RELATION TO THE MEDITERRANEAN FLY SITUATION IN FLORIDA

**I**N a letter to President Hoover, the editor of the MANUFACTURERS RECORD under date of June 10 wrote:

"The situation by which Florida is deprived of the privilege of shipping its fruits or vegetables out of the state by reason of regulations made by the Department of Agriculture in favor of other states, places such a burden upon the people of that state that I beg to quote a letter which I am just writing to the Secretary of Agriculture, which is as follows:

"As a winter resident of Florida for many years, I am in constant close touch with everything pertaining to the interests of that state.

"The situation brought about by the Mediterranean fruit fly invasion is a very serious one, but in view of the drastic quarantine regulations issued by your department for the protection of other states, it seems to me that it becomes absolutely incumbent upon the National Government to appropriate very liberally for remuneration to Florida citrus and vegetable growers, who, by the action of your department in forbidding the shipment of their products outside of the state, or those already outside of the state into other states, will be handicapped financially to an extent unknown, I think, in any other campaign of this kind.

"I do not believe that any state has ever before had to face a situation where it is so drastically—even though the regulation may be wise—controlled in the production and shipment of farm products. The loss to individual growers, and thus to the state as a whole, will be almost immeasurable.

"Under the circumstances, I cannot see how the state or individual communities can be expected to help meet the situation, for, having prevented production, they will not be in a position to spend money to care for the producers. I do not see how in this respect they can even co-operate with the Federal Government.

"It seems to me that this is pre-eminently a Federal Government responsibility so great that it cannot be minimized or shirked. I sincerely hope, therefore, that the whole influence of your department will be thrown in favor of most liberal appropriations by the Federal Government to meet this situation."

"On behalf of a people who must necessarily suffer very heavily by these Federal regulations, even if those regulations are fully justified for the good of other states, I sincerely hope you will give the matter your earnest consideration and co-operation in having the Federal Government take hold of the remuneration of these growers in a way as broad and liberal as the quarantine regulations are drastic and comprehensive."

**A BANKER'S LETTER TO THE FEDERAL  
RESERVE BANK AGAINST  
PRESENT METHODS**

PRESIDENT S. S. BLACKMAN, of the First National Bank of Tullahoma, Tenn., in a letter to the Federal Reserve Bank of New York, with a copy of it sent by Mr. Blackman to Secretary Mellon, made a strong appeal against recent actions of the Board and warned the Federal Reserve System against bringing about conditions as destructive to business as the deflation campaign of 1920. The letter follows:

"For God's sake don't make the same mistake that was made in deflating commodity prices following the war. The situation is parallel and so far your action seems to frighten holders of securities, investors as well as those speculating, and a much greater alarm will occur if something is not done at once to restore confidence.

"Why not recognize the new yardstick in investment as well as in everything else? Furthermore, unless your action causes further alarm and ruinous prices, the investment situation will adjust itself sooner or later, and a very sound judgment is demanded at this time. If investors must be punished in order to correct a situation in the broker's loan situation, it should be done with deliberation and careful action, and I think I see disaster in large proportions unless sanity takes the helm, and a careful check up is made on what happened in deflating commodity prices after the war to see if security prices are to be deflated in the same way. If the Federal Reserve can be depended upon to reduce the price of any line of investment and is allowed to do so, does it not follow that the same Federal Reserve should prevent the price of any line from going too low?

"Is it not evident now that commodity prices which were deflated within six months after the debacle of 1920-21 should have had years with which to bring about the accomplishment, if at all? And as a matter of fact, prices rebounded after millions of people were forced into bankruptcy.

"One of the greatest influences in our present day prosperity is the confidence of the people in our investment field, and if this is destroyed the condition forced on this country will be far more disastrous than that forced on it in deflating commodity prices, and I warn you again as I did in 1920 that we face a serious situation, one you can correct, and your failure to do so will not only jeopardize every man's fortune but the very system we now do business under, namely, the Federal Reserve System.

"Take time to remember what closed the business houses, mills and mines and don't forget agriculture. Stop this publicity and use sane careful methods to deal with the situation and success will be yours; otherwise, remember the warning."



**HEAVY CEMENT IMPORTS**

IMPORTS of cement for January, February, March and April amounted to 491,809 barrels, valued at \$528,168. Moreover, it is reported that an investigation of the situation has brought forth the claim that Belgium has been holding back its shipments of cement so that its cement exports to the United States would not bulk so large during the time of the framing of the tariff bill.

Surely the people of this country ought to realize the importance of putting a tariff on cement which now comes in free, cement made in Europe at wages which would be starvation to American people.

**A "NOBLE EXPERIMENT" FOR  
AGRICULTURE**

PERHAPS the noblest as well as the greatest experiment ever made in the world's history for agriculture is the passage of the bill by Congress in accordance with the promise made by Mr. Hoover during the presidential campaign. Despite a good deal of opposition President Hoover has won out and now has the opportunity to carry out his plans backed to the extent, if needed, of \$500,000,000. During his campaign he expressed the thought that an investment of several hundred million dollars by the Federal Government would be a very small amount for this country to spend if by doing so it could put the agricultural interests of the United States on a profitable and safe basis. With that position the MANUFACTURERS RECORD fully agreed then and it rejoices in the passage of this bill by Congress.

This farm organization must of necessity become one of the most powerful financial organizations in the world. Upon the members of the board will rest a responsibility as great as that upon the members of the Federal Reserve Board. Their power for good will be almost without limit and their power for evil, if mistakes should be made, will be equally as great. It will devolve upon President Hoover to select men equal to this tremendous opportunity and responsibility.

Now that this agricultural bill is out of the way Congress should concentrate on the passage of the tariff bill and enlarge the protection given to agriculture by including cotton, jute, oils and the seeds from which oils are produced for whatever purpose intended, whether for foodstuffs, for paints, varnish or soap making. Until Congress has included all of these agricultural products in a protective tariff bill it will have failed in its duty to the farmers and then it should give full measure of protection to the mineral interests, to the so called raw materials and to manufacturers alike. Then and not until then can the full benefit of the agricultural act be realized.

## OUR FOREIGN TRADE—HEAVY INCREASE IN EXPORTS AND IMPORTS

**E**XPORTS and imports for April showed a very heavy increase over the corresponding month of 1928. During April we exported a total of \$425,871,850 as against \$363,928,118 in April last year, a gain of nearly \$62,000,000.

During April, 1929, our imports figured up a total of \$410,677,181 as against \$345,314,265 in April, 1928, a gain of over \$65,000,000.

During the four months ended with April our total exports were \$1,845,560,162 as against \$1,566,770,308 for the corresponding period of 1928, a gain of over \$278,000,000.

During the same four months our imports rose from \$1,414,702,602 in 1928 to \$1,532,832,282 in 1929, a gain of over \$118,000,000.

These figures show that the world is buying more heavily from us than last year, despite all the statements made to the effect that we cannot increase our export trade unless we open our markets to the commerce of the world without a tariff, or on a low tariff basis. As a matter of fact, the world took from us \$278,800,000 more of our products during the first four months of this year than during the corresponding months of last year. Every grand division of the world bought more from us during the first four months of 1929 than for the same period of last year.

The total imports and exports for the four months under review, by grand divisions and by countries, are shown in the accompanying table.

TOTAL VALUES OF EXPORTS AND IMPORTS OF MERCANDISE BY GRAND DIVISIONS AND PRINCIPAL COUNTRIES.

Grand Divisions	Exports		Imports	
	Four months ended April 1928	1929	Four months ended April 1928	1929
Europe .....	\$747,851,749	\$819,712,548	\$402,043,220	\$435,246,352
North America ..	390,853,281	476,640,499	329,562,493	348,145,981
South America ..	140,320,261	202,647,135	203,629,844	239,995,670
Asia .....	196,437,947	235,756,792	423,885,917	439,621,546
Oceania .....	55,879,946	64,141,768	22,777,225	24,000,661
Africa .....	35,427,124	46,667,420	32,803,894	45,822,042
Total .....	\$1,566,770,308	\$1,845,560,162	\$1,414,702,602	\$1,532,832,282
Principal Countries:				
Belgium .....	\$35,376,854	\$43,550,270	\$25,230,872	\$24,507,310
Czechoslovakia ..	1,819,191	2,392,100	12,057,980	16,162,712
Denmark .....	18,828,324	21,038,467	1,063,689	1,342,043
France .....	68,867,017	94,740,011	49,069,651	53,459,907
Germany .....	144,565,591	135,042,350	70,342,951	86,050,360
Greece .....	4,655,290	4,823,603	7,538,907	10,483,415
Italy .....	50,500,938	56,828,245	33,081,302	35,661,237
Netherlands .....	47,967,863	49,475,127	25,848,572	24,430,271
Norway .....	7,226,308	9,230,616	8,197,890	7,092,749
Soviet Russia in Europe .....	23,700,310	17,368,661	3,862,817	5,280,562
Spain .....	24,567,590	30,421,277	11,921,455	11,308,718
Sweden .....	19,310,689	22,288,706	12,628,644	15,729,485
Switzerland .....	4,106,752	4,428,275	13,384,153	14,144,539
United Kingdom .....	270,092,541	294,812,056	112,925,982	114,428,500
Canada .....	258,209,577	324,564,006	147,858,919	159,361,219
Central America .....	25,972,138	29,478,813	17,593,850	16,558,465
Mexico .....	38,142,862	39,164,718	49,174,925	47,142,090
Cuba .....	43,825,373	48,361,582	83,358,288	85,860,183
Dominican Repub. ....	5,318,028	5,556,536	3,162,295	2,883,280
Argentina .....	50,408,535	73,760,580	35,984,438	45,758,625
Brazil .....	30,267,193	44,761,739	77,485,587	79,490,485
Chile .....	11,805,359	17,857,415	27,232,232	39,756,498
Colombia .....	17,650,163	21,720,302	36,832,615	33,297,893
Ecuador .....	2,062,285	2,165,530	1,560,787	1,781,718
Peru .....	7,406,833	9,668,800	6,268,398	9,709,874
Uruguay .....	7,918,828	11,262,298	4,678,012	10,235,508
Venezuela .....	10,251,232	18,285,525	12,761,379	19,044,437
British India .....	22,347,543	20,874,947	54,066,980	56,925,897
British Malaya .....	4,516,000	5,275,054	94,336,805	91,676,346
China .....	37,440,850	43,754,158	45,473,488	53,743,290
Hong Kong .....	8,574,953	7,735,817	4,148,227	5,747,210
Dutch E. Indies .....	11,493,574	18,270,890	32,309,751	27,615,484
Japan .....	78,287,188	92,189,340	125,846,622	135,409,912
Philippine Islands .....	24,779,236	32,498,956	42,596,518	43,887,627
Australia .....	44,288,075	50,974,530	15,500,739	13,234,506
New Zealand .....	10,709,002	12,363,674	6,572,503	9,618,803
British S. Africa .....	17,226,050	22,300,356	3,452,425	3,615,937
Egypt .....	4,437,427	5,787,455	10,428,540	20,088,404

Later figures giving the exports and imports for May show that our buying from aboard has increased very heavily, run-

ning up to \$401,000,000 in May as against exports of \$387,000,000 for the same month.

During the five month period ending with May our exports amounted to \$2,232,449,000 and our imports to \$1,933,817,000.

Compared with May, 1928, our exports for May this year showed a decrease of \$55,000,000, and our imports a gain of \$46,000,000.

Possibly some of this great increase in imports was due to the desire of American buyers to get the stuff into this country prior to the enactment of the new tariff bill. At any rate, for May at least we imported very much more than we exported.

## SOUTHERN YOUTHS TURNING TO TECHNICAL EDUCATION

INDICATIVE of the spirit with which the young people of the South are turning to technical education, so long advocated by the MANUFACTURERS RECORD, is the fact that Georgia School of Technology awarded the degree of Bachelor of Science and Bachelor of Arts to 329 in the graduating class, the largest number ever graduated in one session. All through the South similar conditions exist. To an ever increasing extent the young men of the South are turning to technical training that they may fit themselves for the great future of this favored region.

## CAN ELECTRICITY BE USED ON THE SOIL TO ELECTROCUTE INSECTS?

J. S. CRUTCHFIELD, president of the American Fruit Growers, Inc., Pittsburgh, in the course of a letter to the MANUFACTURERS RECORD raises the following interesting point, which we submit to the electrical people of the country:

"Several months ago we recall a suggestion having been advanced with reference to treatment of orchard property with some electrical process to make it immune from pests. It is possible that some treatment of the soil by electricity might electrocute all the white flies in the soil. We are looking into this phase of the subject and would also appreciate any information you might have or that may come to you along that or similar lines."

## HAS A SUCCESSFUL COTTON PICKER BEEN FOUND?

W. C. DURANT, of automobile fame; C. O. Moser, president of the American Cotton Growers Exchange, and others associated with them believe they have solved the problem of picking cotton by machinery. They have organized a \$5,000,000 company for the introduction of an automatic picker narrow enough to work between two rows, leaving the plants themselves undisturbed. It is proposed to build 400 machines for the first year of operation, to prove the practicability of this invention before instituting a general campaign.

Many automatic cotton picking machines of one kind and another have been invented in the past. Some day a successful one will probably be found to the great benefit of the cotton industry, though its success will throw out of employment in the fall and winter months a very large number of people now engaged in the hard work of cotton picking through the picking season.

# Georgia and Florida Railroad Opens Extension, Greenwood, S. C., to Augusta



Hugh W. Purvis,  
President and General Manager

ON approximately the twenty-third anniversary of its organization, the Georgia & Florida Railroad on June 19 formally opened its Augusta-Greenwood extension, a 57-mile stretch which opens connections at Greenwood with the Seaboard Air Line, the Piedmont & Northern, the Southern and the Charleston & Western Carolina and gives the Georgia & Florida a total of 503 miles operated. In 23 years, the Georgia & Florida has grown over 100 per cent. Not that all has been smooth sailing in that time, as in 1915 stress of business forced the road into a receiver's hands, but its business since 1927, when it regained its financial freedom, and its prospects for the years to come have wiped out unpleasant recollections.

The first spike in this great system was driven back in 1901, in the Wadley & Mt. Vernon Extension Railroad Company, from Douglas to Broxton, later becoming the Douglas, Augusta & Gulf when it was extended to Ocmulgee River and took over the Ocilla, Pine Bloom & Valdosta, from Pine Bloom to Nashville Ga., and built from Douglas to Willacoochee and Pine Bloom, in all about 60 miles. The first train over the Georgia & Florida to Augusta, via Keysville, was operated in 1909, and is thus recalled:

"This train was quite a success in every respect and people all along the road from Madison, including Valdosta,

[Linking three states—South Carolina, Georgia and Florida—the Georgia and Florida Railroad celebrated on June 19 the opening of its line to Greenwood, S. C., where it comes in connection with several of the most important railroads of the South. This opens up a new line for travel and for traffic which promises to be of great advantage to the entire territory tributary to that road and its connections.

Started some years ago by the late John Skelton Williams of Richmond and Middendorf, Williams & Co., of Baltimore, the road had to meet many hard problems in its early struggles, but the history of the road and what it is now doing, as told in the following article, is an inspiration to others who have to face apparently insurmountable difficulties but who master them and go on to success. Shakespeare said: "There is a tide in the affairs of men, which, taken at the flood, leads on to fortune," but many a man and many an industry has been wrecked by not knowing how to take advantage of that tide and, instead of being swept on to fortune, is swept down to ruin. John Skelton Williams and those who have succeeded him in the management, including his brother, R. Lancaster Williams, Chairman of the Board, President H. W. Purvis and other officials and directors have utilized the rising tide of Southern prosperity and have carried this enterprise on to its present success.—Editor MANUFACTURERS RECORD.]

Nashville, Bannockburn, Willacoochee, Douglas, West Green, Hazlehurst, Videlia, Normantown, Wesley, Swainsboro, Midville, Gough and Keysville turned out in the same proportions as if Barnum & Bailey's circus was on hand. When this train arrived in Augusta, the city had an entertainment committee that took care of the crowd and made it a day of festivity and celebration for the guests and officials of the Georgia & Florida. A day coach and a sleeper were handled on two freight trains, one sleeper being tied up in Valdosta each day and one in Augusta."

To the management and the patrons

in this day of the road's progress and prosperity, the picture appears really quaint.

Sold to the late John Skelton Williams and Middendorf, Williams & Co. in 1906, this original road at first was slated for construction to Ocmulgee River at Barrow's Bluff, but Mr. Williams and his associates organized the Georgia and Florida and bought the Douglas, Augusta & Gulf, Colonel J. M. Wilkinson's road from Valdosta to Madison and the road from Nashville to Sparks and other short roads between Douglas and Augusta. Thus, when organized in 1906, the Geor-



Drilling With Compressed Air in a Granite Cut Near Edgefield, S. C.

gia & Florida included the following roads: Augusta & Florida, 49 miles, Keysville to Swainsboro; Millen & Southwestern, 52 miles, between Millen and Vidalia; Douglas, Augusta & Gulf, 76 miles, between Hazlehurst and Nashville via Broxton; Nashville & Sparks, between Nashville and Sparks, 12 miles; Valdosta Southern, 28 miles, between Valdosta and Madison; Sparks Western, 20 miles, at that time a log road, operating one train between Sparks and Kingwood.

And interesting was the equipment of these roads, the Augusta & Florida, for instance, boasting two locomotives, a day coach and a combination baggage and seat coach and the Millen & Southwestern meeting its needs with five locomotives, three day coaches, two combination mail and baggage cars, two cabooses



Two Steam Shovels With Dump Wagons Beginning Cut Near Greenwood, S. C.

In those days, the engineer was paid \$2 to \$3 a day and the fireman at \$1 to \$1.50 a day was an object of envy to the youth along the line. Conductors received \$50 to \$75 a month and brakemen and porters \$1 and \$1.25 a day, all strictly on a day basis of 10 to 15 hours, with no overtime allowance. For the shop employees in 1907, the rate for boilermakers, machinists and blacksmiths was 30 and 32 cents an hour; coach carpenters, 25 to 27 cents; handymen and helpers, 15 to 20 cents, and laborers from 10 cents to 12 cents, which successive raises have increased to 65 and 70 cents at present.

So the first five years passed and in 1911 operating conditions were fairly good, most of the freight revenue being derived from lumber, naval stores and fertilizers, originating largely on the line, but later the saw mills began to move out and naval stores decreased and the "lean days" approached. Heavy rains and washouts added to the burden and also a firemen's strike, during which several trestles were burned and otherwise destroyed and very few trains were run. The climax, indeed, was reached in 1914, when the world war broke out, a veteran official recalling:

"The whole country, especially south

Georgia, had raised enough cotton that year to supply all Europe, and other money crops in south Georgia at this time were exceptionally good; but, owing to the war, there was no sale for any of the money crops in Georgia or, in fact, all along the line. This caused a heavy falling off in business and as a result there was a reduction of wages, the cutting off of men, cutting off of trains—in fact, a cutting off of everything that could be cut off. It was hard to see how we could operate from one day to the next."

And so on March 27, 1915, the road yielded to the pressure of misfortune and went into the hands of receivers.

But soon the tide turned and the early part of 1916 showed such increase in business that the management was obliged to buy equipment, including four 10-wheel locomotives. Then in 1918, 1919, 1920 and 1921 the railroads were operated under direction of the United States Railroad Administration and the people of all the land paid hugely for poor service and characteristic governmental waste and extravagance. But again the tide of misfortune ebbed; business in the South picked up in amazing fashion, the road was fortunate in good management and in 1927 conditions were so greatly improved and the outlook for the future was so bright that the receiv-



Derrick Moving Forward to Place in Position One of the Last Spans on Turkey Creek Viaduct

and approximately 20 flat cars. None of the roads had any shops, except the Millen & Southwestern, other than a pair of heavy jacks and such hand tools as were needed in doing general running repair work. At the time of the organization of the new road, there were only one or two water tanks on the line and most of the tender tanks were filled by a jet by coupling to a steam connection on the engine and waiting for the tank to be filled, an operation requiring from 40 to 60 minutes. Virtually all the engines were wood burners and were fueled at wood racks at convenient stations, all hands getting out and helping to "wood up" the tenders, while often there was no wood in the racks and even the passengers joined in search for fuel in the neighboring woods and thickets.



Concrete Foundations and Creosoted Timber Abutment for 540-foot Steel Viaduct Over Turkey Creek



**Reinforced Concrete Abutments for Overpass to Eliminate Grade Crossing at Greenwood**

ership was terminated and the road resumed its independence.

A feature in the management of the road, as in all other high-class roads, is the maintenance of the rolling stock in the best possible condition.

The stations on the new line just opened, are as follows: North Augusta, Stevens, Edgefield, Pleasant Lane, Crafton, Pittsburgh, Dominicks and Greenwood.

The extension to Greenwood is single track and has about six miles of yards and sidings. The main line is laid with 85-pound A.S.C.E. rail, and the ties are of heart cypress, yellow pine and white oak, largely cut along the new line and the existing lines in Georgia.

The line runs through a country which may be described as "rolling"; however, by heavy excavation work, the grades were kept low, the ruling gradients both north and southbound, being eight-tenths of 1 per cent compensated for curvature. The curvature is light, the maximum between North Augusta and Greenwood being three degrees. Two steel bridges, each 540 feet long, were constructed, the total length of steel bridges on the new line being about 1600 feet, exclusive of the Southern Railway bridge, by means of which the Savannah River at Augusta

is crossed. Both corrugated iron and reinforced concrete pipe were used for the 24, 30 and 36 inch openings. Forty-eight inch reinforced concrete pipe and reinforced concrete box culverts from 4 feet by 4 feet to double 10 feet by 12 feet were used for the larger openings;

railroad type steam shovels and several small gasoline tractor shovels. The work was under the general direction of Hugh B. Holmes, chief engineer of the Georgia & Florida Railroad, while R. F. Ezzell, superintendent of construction, directed the work in the field, with H. L. Thurston, R. D. Hughey, Charles McDiarmid, Robert Speer and others as his assistant engineers. Thomas J. Eppes, R. W. Jones, Jr., E. K. Hatten and R. F. Ezzell worked on the location of the line at different times. The right-of-way engineer was R. E. Mesnard, and M. O. Bellingrodt designed the bridges. Coverdale & Colpitts, New York, were the consulting engineers.

The contractors on the work included: Virginia Bridge & Iron Company, Roanoke, Va.; Chicago Bridge & Iron Works, Greenville, Pa.; Winston & Co., Inc., of Richmond, Va.; K. V. Johnson, Edgefield, S. C.; Harrison, Wright & Co., of Charlotte, N. C., and L. R. Blackburn and W. M. Proctor, Statesboro, Ga.



**Long Temporary Trestle for Dump Trains Erected on Top of Lower Level of Embankment Made With Teams**

for lateral drainage in wet cuts, 15 inch and 18 inch corrugated iron pipe and perforated cypress and yellow pine boxes were used.

Eighteen steam and gasoline shovels were employed on the job, including two

Section 1, from Augusta to Edgefield, 25 miles, runs through a hilly country, with considerable forested land, and excavation was heavy, averaging about 80,000 cubic yards to the mile. The chief features are a 10½ mile continuous climb from North Augusta on Savannah River at or near the maximum gradient of 8 per cent to Stephens Ridge, a sandy country; a 200,000 cubic yard sand cut, 4000 feet long, where the line crosses Stephens Ridge, this sand, some of which is pure white, having commercial possibilities. Other features were the Chavous Creek steel viaduct, 540 feet long and 73 feet high; a 270,000 cubic yard cut, 80 feet deep, through a mixture of schist and sand mixed with kaolin and mica flakes, 18 miles north of Augusta, and a cut through a granite ledge two miles south of Edgefield, where a new granite quarry may be developed.

In the sandy region between Augusta and Edgefield asparagus growing is developing extensively and profitably, and the chief crops are cotton, corn and



**Large Railroad Type Shovel and Dinky Train in the 280,000 Cubic Yard Cut. Note White Kaolin in Foreground**

asparagus. Edgefield, the county seat, has about 3000 inhabitants, two lumber mills and the Kendall cotton mills, which are now engaged in doubling the size of their plant.

Section 2, from Edgefield to Greenwood, 32 miles, runs through a rolling country crossed by five streams requiring steel bridges. It is largely under cultivation and the timber is chiefly white oak and short leaf pine. The grading on this section was much lighter, averaging about 35,000 cubic yards per mile. Among the features are: Extensive deposits of commercial clays and shales suitable for potteries and brick plants, lying along the right-of-way near Edgefield and for a distance of 10 to 12 miles northward; a 540 foot steel viaduct over Turkey Creek; also four-deck, plate girder, two-span steel bridges over streams. An overpass built for another railroad eliminates a crossing at grade. Joint station facilities with the Seaboard and the Piedmont and Northern Railway are provided.

Greenwood, county seat of Greenwood County, S. C., has a population about 12,000. The city has five cotton mills, totaling 160,000 spindles, and there are other diversified industrial plants. The annual wholesale and jobbing business is estimated at \$6,000,000. The county has produced as high as 40,940 bales of cotton in one season. Greenwood has several electric power transmission lines and is served by five railroads, including the Georgia & Florida.

#### Development Activities in Palm Beach Section

West Palm Beach, Fla.—Continuing the development and expansion characterizing this section during the past few months, a number of new projects have been announced recently, prominent among which is an additional building program for Palm Beach to involve \$1,000,000 and the colonization of land in the Lake Worth drainage district. In addition to several large construction projects already under way in Palm Beach, Treanor & Fatio, local architects, announce a \$250,000 residence for Mrs. John Cooper, on South Ocean boulevard; and other homes to cost from \$50,000 to \$75,000, and a new building for the Church of Christ. Mrs. Charles Amory let contract to the Consolidated Engineering Co., Baltimore, for a \$175,000 dwelling.

Albert Hall, Philadelphia, Pa., plans to expend \$300,000 during the summer for the improvement of a tract of land on South Ocean boulevard, upon which 16 residences will be erected at a cost of \$20,000 each. Development continues in the Everglades and the Loxahatchee Farms have announced the continuation of a \$750,000 farm program. This com-

pany already has a tract of 1000 acres under cultivation and plans to include its entire area of 6500 acres within the next several years. The present development embraces large acreages of citrus trees, tree and fern nurseries and chicken farms. The Lake Worth drainage district is promoting the development of land in the coastal area and J. B. McDonald, local realtor, will tour the North and East this summer to arouse interest in the colonization of this section. Through the office of Ladd & Nichols, Inc., of Florida, William F. Kenny, New York contractor, has purchased "Neptune," the home of William H. Luden on Sea Spray avenue, at a reported cash consideration of \$150,000.

#### \$1,000,000 Texas Hotel

The Mineral Wells Hotel Co. is erecting a \$1,000,000 hotel at Mineral Wells, Texas, to be operated when completed some time in August by the Baker Hotels, Inc., of Dallas. The 14-story, concrete and steel structure is so designed that each of its 400-rooms has outside exposure. A gymnasium, an elaborate lobby, and a mineral water drinking pavilion are features. A therapeutic bath establishment will be located



Hotel at Mineral Wells

on the second floor. A banquet hall, 70 by 120 feet, is to be situated on the roof. Adjoining the building is to be a large outdoor swimming pool with sand beach. Wyatt C. Hedrick, Inc., Fort Worth, is the architect.

#### \$300,000 Office Building

Childress, Tex.—J. M. Crews, active vice-president of the First National Bank and the Farmers & Mechanics Trust Co., announces plans for constructing a \$300,000 5-story and basement, reinforced concrete building here, with foundations of sufficient strength to carry 7 additional stories. Wyatt C. Hedrick, Inc., Fort Worth, is the architect.

#### GEORGIA TRAVERTINE DEPOSIT

##### Said to Be Superior in Quality and Appearance to Imported Product

Cuthbert, Ga.—Deposits of travertine discovered in the Randolph County hills, near Cuthbert, are said to be the equal of similar deposits anywhere. According to a survey made by State Geologist McCallie and Richard K. Meade, a prominent engineer of Baltimore, the deposits are said to be extensive. The Godfrey Marble Co., Atlanta, H. M. Godfrey, president, has secured a 99-year lease on property containing the deposit and will quarry the product after installing modern equipment. The Investment Bankers Corp., of New York and Atlanta, J. O. Partain, president, is financing the development of the industry.

It is understood that the Georgia travertine marble is superior both in quality and appearance to the imported product and that millions of tons are available. Its shade is a delicate buff and its texture, although almost identical with that of the Italian travertine, is in richer tones, producing beautiful effects when installed.

Analyses are said to show that it contains 98.52 per cent pure limestone and it is claimed that there is no waste in the use of it, as the chips are used for terrazzo and the crushings for commercial fertilizer.

#### Natural Sodium Compounds

Production of sodium compounds, not including common salt, from natural salines and brines in this country in 1928, as indicated by sales or shipments by producers, amounted to 206,380 short tons, valued at \$5,389,728, according to the Department of Commerce. These figures include the output of sodium carbonate (soda ash), sodium bicarbonate, sodium sulphate (salt cake and Glauber's salt), trona, and sodium borate (borax and kernite), and show a large increase in both quantity and value as compared with 1927. The sodium carbonates reported amounted to 79,830 short tons, valued at \$1,578,256, and the total boron minerals shipped in 1928 amounted to 131,000 tons, valued at \$3,999,773.

#### Growing Tung Oil Trees

Sebring, Fla.—The Lakeport Farms Incorporated, A. L. Mathews, general manager, is interested in developing a tung oil extracting industry in this section. The company has already approximately 100,000 trees planted in a nursery for setting out in groves next year.

# Hydraulic Levee Building on Lower Mississippi

By EDWIN C. KELTON, Major, Corps of Engineers, U. S. Army.

**C**ONSTRUCTION of levees by hydraulic methods is by no means new. For years it has been done on the Columbia River and on the upper Mississippi River. In fact, the method on the upper Mississippi proved so successful and the cost so reasonable that the dry land operator has had difficulty in meeting the competition.

The methods used there, however, were not entirely applicable on the Mississippi River below Cairo. One fundamental cause made the difference, character of the material.

Below the city of Cairo, Ill., the Mississippi flows almost at will through a wide flood plain, changing its course, cutting away banks, building islands and annually overflowing the banks to deposit vast quantities of sand, loam, silt, and the well known "buckshot" of the alluvial valley. All of this material is very finely divided, gravel being found in only a few points on the river, usually just below high resistant bluffs such as the Hickman, Ky., bluffs, and the Chickasaw bluffs in Tennessee. It is the fluidity of the material that causes the dredge contractor engaged on construction of levees to get old before his normal span of life. In many cases, the material seems to flow like water and unless the contractor has learned how to make the dredged material stay in place his costs will be excessive. It is the purpose of this article to tell of one attempt to accomplish this.

In November, 1928, the Chief of Engineers approved the subproject for construction of one mile of levee by Government plant by hydraulic methods. The stretch selected was in the Lower St. Francis levee District in Arkansas, about thirty miles above Memphis. The work consisted of enlarging the existing levee from the 1914 grade and cross section to the 1928 grade and section. At this point, the increase in height did not exceed 2 feet. The levee selected was roughly parallel to and 600 feet from a chute, the water in which was deep enough, except at extreme low water, to adequately float the large dredge.

Roughly, the experiment was undertaken to determine the following points:

- a—Best methods of construction.
- b—Most economical methods of retaining material in the fill.
- c—Effect of various materials on operating conditions and cost of the work.
- d—Shrinkage of various classes of dredged material.
- e—Percentage of material that could be retained in place.
- f—Time required for the levee to dry.

It was also hoped that conclusions could be drawn as to the advantages and disadvantages of constructing levees by this method.

## Method of Construction

The method of construction consisted of cutting into the 55-foot banquette with a Bucyrus type 9½ dragline provided with a 1¼-yard bucket and 48-foot boom, and constructing a retaining levee parallel to and approximately 75 feet from the old levee. The old levee was cut at one point down to the level of the top of the banquette and a spillway into the riverside borrow pit constructed.

On one part of the work a wooden bulkhead was constructed on top of the retaining levee. Into the reservoir thus formed material was pumped from the bed of the chute and the island opposite the levee. As work progressed, the elevation of the spillway was gradually raised in an effort to retain at all times a settling basin. This increased the percentage of material deposited and thus expedited the work. After the hydraulic fill was completed, the dragline was taken on top of it and used to cut down the embankment and to shape up the material to the standard and cross section. Dressing of the levee was done with fresnos and drags.

Work was started December 22, 1928, and completed May 20, 1929. The dredge was at the site of the work from December 20, 1928, to March 19, 1929, a total of 68 working days and 89 calendar days. The dragline completed its work May 4, after 110 working days or 134 calendar days. The entire piece was completed May 20, 1929. Time of operation was considerably increased by bad weather conditions which caused large labor turn-

over, frequent shifting of dredge because of rapid fluctuations in river stage, delays in laying pipe line, faults in retaining levees, delays in dragline work and washing of the almost completed levee. Under summer weather conditions it is estimated the time for the dredge could have been cut to 40 working days and for the dragline to 80 working days. The dredge operated 24 hours a day with three eight hour shifts, the dragline 20 hours per day with two shifts.

An analysis of operations including a statement of time lost by the dredge is given at the end of the article.

A Bucyrus type 9½ dragline equipped with a 1¼-yard bucket and 48-foot boom was sent to the site of the work two weeks before the arrival of the dredge. Two shifts working ten hours each constructed 1400 feet of retaining levee before the dredge was ready to start pumping. The dredge used was the H. S. Taber, a 20-inch high pressure pipe line dredge. The shore pipe used was 17 inches in diameter about half of which was equipped with "pockets" one to each 15-foot length of pipe. Fresnos and drags were used to dress the levee. The personnel on the job, including both dredge and shore gangs, averaged about 120 men when both dredge and dragline were working. Some 20 of these men were required due to the experimental nature of the work and the difficulty of holding retaining levees. On another job of similar nature the force could be considerably reduced.

The 48 foot boom on the dragline was too short to place the material effectively in shaping up. In similar work a 55 foot boom should be provided and if a "C" section with 12 inch crown, 5-1 river slope and 7-1 landside slope, is to be used at least a 65 foot boom should be provided.

## Retaining Levees

Considerable trouble was experienced in trying to make the fresh retaining levees hold the dredged material. Various experiments were tried for the purpose of determining whether the amount of dragline work could be reduced by placing the levee on the outer edge of the banquette thus avoiding the large levee required if the center line were moved out beyond the toe of the banquette slope. This of course gave insufficient fill between the dike and levee unless it was carried two or three feet above the crest of the old levee. In lieu thereof the dragline was sent back over the hydraulic fill and higher retaining levees put



Spillway Through Levee at Banquette Levee

up out of the dredged material. In doing this the dragline was taken up on the hydraulic fill four days after pumping was stopped and tracked 1350 feet to the upper end of the work. The material of the fill on this section was about 60 per cent sand.

Wooden bulkheads on top of the retaining levee were tried on one stretch and

pipe a hole about 8 by 16 inches was cut and a boxlike pocket welded to the pipe. The pocket was provided with a steel sliding gate which permitted the opening and closing of the pocket.

The purpose of the pocket pipe was to let the sand and loam out of the bottom of the pipe with a minimum of water and hence increase the percentage of material

machine. This caused some delay but was entirely successful.

#### Materials and Tests

Character of the material for the dredge fill was determined by borings. Four general classes of material were encountered. The dredge was originally located by a boring where about ten feet of sandy loam overlay ten feet of coarse river sand. By raising or lowering the cutter-head almost the exact percentage of sand desired could be obtained. As a larger percentage of sand than loam is retained in a fill a contractor in a similar condition would be tempted to put in pure sand. It would appear therefore that the inspector on a contract providing for a "B" section should be prepared to take daily tests of material to determine percentage of sand placed. This was done on this job and at no time was sand in excess of 70 per cent permitted.

In order to determine the possibility of pumping other materials than sand and loam the dredge was moved to a second or pure buckshot location. For nearly a week pure buckshot was pumped. The percentage of sand in this material was less than 2 per cent and yet a large proportion of the material came out of the pipe line in large lumps and remained in place. This made an excellent and rapid fill.

A third general class of material was encountered; namely, very fine sand and silt. It is extremely difficult to hold this material in place. The fine sand, much of which will pass a No. 100 mesh screen, flows very readily and a large settling basin is required to hold it. This mate-



Hydraulic Levee Work Showing Discharge From Pocket Pipe and Character of Material

proved to be a failure. The water from the dredge softened the freshly constructed levee which permitted seepage under the bulkheads, soon causing failures. Although many breaks occurred no appreciable material was lost beyond the toe stakes of the levee. The bulkheads were abandoned as a prolific cause of delay in pumping hours. It is estimated that pumping hours per working day were reduced from 16 to 10 by this cause.

Finally retaining levees with a five foot crown and 1 on 1½ slopes were constructed, well out from the levee to provide ample reservoir space to hold all the material required for the new section. These fresh fills made from materials ranging from almost 75 per cent sand to pure buckshot held the dredged material with little difficulty even when hydrostatic heads of 12 feet were put upon them. It was noted that, in the sandy parts, some seepage occurred at first but that the dikes soon became impervious due probably to the silt in the dredged material.

The percentage of dragline work on the job was excessive, running up to 40.3 per cent and 37.1 per cent for the preparatory and shaping work respectively or a total of 77.4 per cent. The wooden bulkheads kept this yardage from being even higher. A subsequent computation of the dragline yardage upon this job, placing retaining dike in the most economical position to reduce the dragline work to a minimum, resulted in a total yardage of 108,357 cubic yards, or 78.62 per cent of the total enlargement. Computation upon several other enlargement jobs where the yardage per station was greater showed the percentages to average about 35 per cent and 29 per cent preparatory and shaping respectively.

"Pocket" pipe was used during part of the test. From each 15-foot section of

retained in place. When river sand was encountered, the pockets were successful and caused a rapid deposit immediately under the pipe. However, with buckshot the pockets clogged and necessitated constant attention. Finally they were abandoned as the varying stages of the river made the continuous pumping of sand impossible.

As one of the contentions about work of this kind has been that it is impossible to work a dragline on a new hydraulic fill, a special effort was made to determine this point. In addition to the incident given earlier in this article, the dragline was again put on a new fill where the material was about 90 per cent buckshot just one week after pumping



Levee Prepared for Hydraulic Filling

had been stopped. Wooden pads 7 by 9 feet were used under the caterpillar treads and some time was lost but the machine continued to work. On one stretch, however, consisting of very fine sand and silt (poor dredge material) more trouble was encountered and a 2-foot blanket of dry material from the retaining levee was placed in front of the machine to keep the water from working up from the vibration of the

material is considered by many to be unsuitable for levee construction, and when seen wet so appears. However, on drying, which it does slowly, it forms a very impervious levee, quite comparable to any in the district. It is, however, the type of material very subject to wave wash and hence should be given especial attention in sodding.

A fourth class of material encountered was buckshot mixed with strata of sand.

This was bad combination and resulted in the sand cutting the buckshot and preventing the deposit of the material near the pipe line.

Operating conditions of the experiment prevented an accurate analysis of the cubic yards of material of varying classes pumped per pumping hour. However, it is felt that with adequate power and discharge pressure to meet the lift and length of pipe line there is not much difference in the cost of pumping the various materials encountered. Sand of course wears the pump and pipe lines much more rapidly while the danger of clogging the pipe line when near the limit of the pump is much greater with buckshot or clay than with sand.

#### Shrinkage

Accurate measurements were taken of the shrinkage of the hydraulic fill. In general the measurements were made about a month after the end of the pumping. It was found that the shrinkages up

to that time were about as follows: Buckshot 9 per cent; sandy loam 2 per cent; over 60 per cent sand 0 per cent.

#### Percentage of Material Retained

Two rapid rises and falls in the river which fluctuated from 11 to 33 feet on the Memphis gauge caused frequent shifts in the location of the dredge and made accurate borrow pit measurement most difficult. However, measurements of the amount of material carried out through the spillway, checked against some river side borrow pits before and after pumping and also against fill measurements taken when little material was wasted, give a close estimate. Based upon these measurements 58 per cent of the material pumped was retained. Based upon daily dredge reports 43 per cent was retained. These percentages could have been materially increased if the retaining dikes had been strong enough to withstand a greater water pressure. It is believed that 50 per cent of the worst material and 75 per cent of the best material can

be retained using the methods here employed.

The time required for the levee constructed by this method to drain out is of importance. In many cases, "set back" levees or "loops" are required where the new levee must be adequate to withstand high water within a few months after completion. It is essential therefore that the drying and consolidation of the levee be rapid enough to make sure that trouble will not result the following year. Tests have been taken to determine the rate which the saturation line in the new levee falls after construction. Final conclusions upon this point have not been reached, but I believe that with most of the material encountered in the Memphis Engineer District a period of three months of fairly dry weather is sufficient to insure a thoroughly reliable levee when the standard cross sections are used. With sand, this period of course is considerably less, as the material drains almost as rapidly as it is put in place.

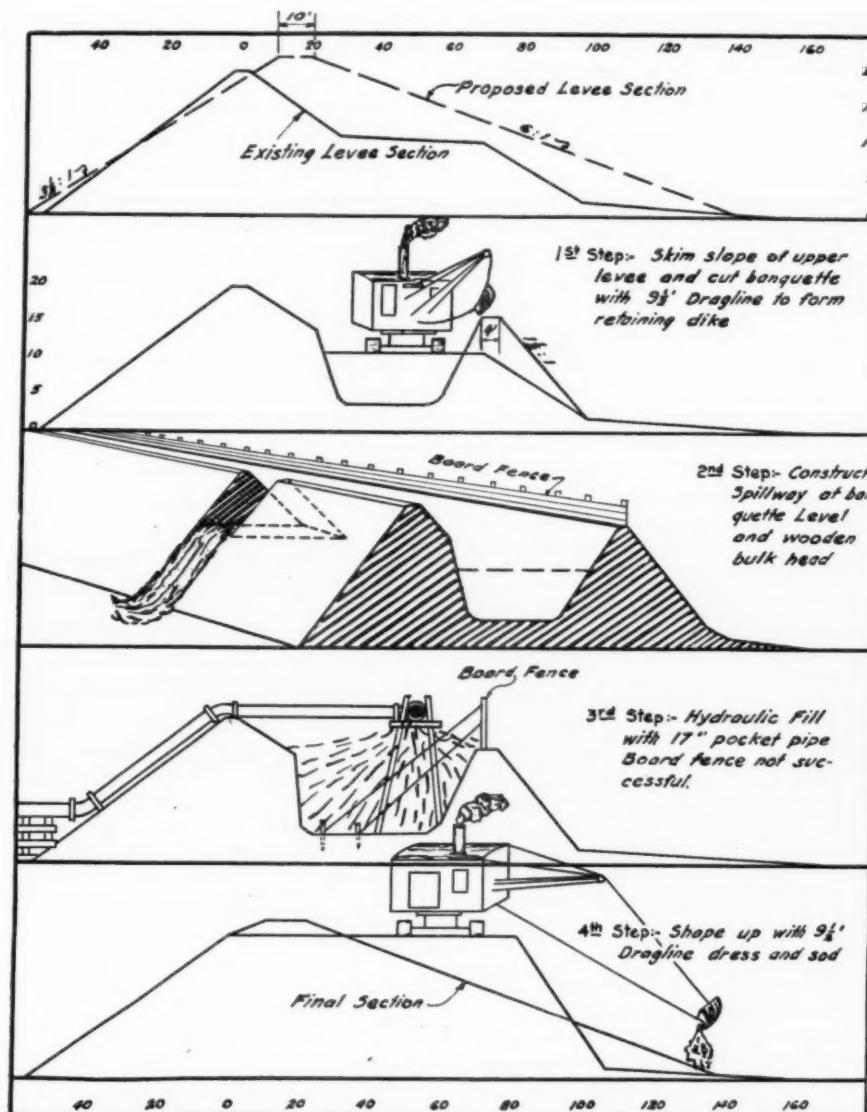
#### Costs

Complete data as to the cost of the job is not yet available and from the experimental nature of the work no direct conclusions as to cost can be drawn. Reasoning from the work on this task and making allowances for the experimental nature of the work and the extremely unfavorable weather conditions encountered, it is believed that the work could be done in a much shorter time and with less personnel.

The work was done under the direction of Lieutenant Colonel F. B. Wilby, District Engineer, and the writer. Capt. George Y. Lovejoy was in direct charge of the work, while the engineering and inspection work was under direction of W. R. Vawter. It is desired to acknowledge the excellent work done by Mr. Vawter in compiling data and complete records on this work.

Results of this experiment have been very encouraging. While the work itself was not done as cheaply as it had been hoped, the methods used have aroused the curiosity and interest of many of the dredging contractors. This interest has shown itself in the number of hydraulic bids received at the recent openings on levee work. In one case two low bids were from dredging contractors—one contractor planning to use a large 235-foot boom, 10-yard clamshell dredge, and the other a 16-inch pipe line dredge and methods very similar to the ones employed on this experiment.

It is hoped that, as the contractors gain in confidence in their ability to construct levees by this method, the cost of construction while retaining adequate profit for the contractor will be some-



Method of Constructing Levee Hydraulically

what lower than has been the case in the past.

#### ANALYSIS OF OPERATIONS.

Cubic yards in contract.....	137,811
Cubic yards placed by dredge.	141,800
Cubic yards pumped by dredge.*	328,982
Per cent of material placed...	43
Number of hours pumped....	584
Cubic yards placed per hour..	243
Cubic yards pumped per hour. ....	*560
Average hours pumped per pumping day .....	10 hrs. 4 min.
Average lift .....	33.5 ft.
Maximum lift .....	48.2 ft.
Average length of pipe line... .	1,670 ft.
Maximum length of pipe line..	2,355 ft.

\*Taken from Taber's daily report. Pit and spillway measurements taken show 234,000 cubic yards, or an average of 400 cubic yards per hour.

Total time on work..... 1896 hrs.

Effective pumping time... 584 hrs.

#### HOURS LOST BY TABER WHILE ON JOB.

	Hours	Per cent
Repairing bulkhead .....	346	26.57
Handling pipe line.....	263	20.04
Placing plant .....	225	17.15
Handling swinging cables...	26	1.98
Cleaning suction or cutter head .....	23	1.73
Cleaning pump and disc line	3	0.23
Breaking pontoon line for passing vessels .....	19	1.45
Minor operating repairs....	13	0.99
Major repairs (placing boiler tubes) .....	38	2.90
Freezing weather .....	38	2.90
Washing boilers .....	57	4.35
Waiting on dragline.....	19	1.45
Total .....	1070	
Sundays and holidays.....	242	18.44
Total hours lost.....	1312	100.00
Cubic yards moved by 9½ machine in preparatory work....	55,580	
Cubic yards moved by 9½ machine in topping.....	51,133	
Total moved by 9½ machine....	106,713	

\*Sundays and holidays spent laying shore line, breaking up shore line, washing boilers, shifting dredge and repairing bulkhead.

#### \$2,000,000 Store for Washington

A \$2,000,000 department store building is under construction in Washington, D. C., for Julius Garfinckel & Co., the structure to have a frontage of 145 feet on 14th street, 185 feet on F street, and to be 9 stories, basement and sub-basement, the street fronts faced with In-



Garfinckel Store Under Construction

diana limestone. Starrett & Van Vleck of New York are the architects and the Charles H. Tompkins Co. of Washington, is general contractor. Contract for 2500 tons of structural steel has been awarded to the Washington Branch of the Lehigh Structural Steel Co. of Allentown, Pa.

## Gravity Concentration of Alabama Oolitic Iron Ores

A study of the use of the gravity concentration process in the beneficiation of Alabama oolitic iron ores has been made by the United States Bureau of Mines, in co-operation with the University of Alabama and the University of Missouri. The self-fluxing iron ores of Alabama are the foundation of the iron and steel industry of that state, says the Bureau in a recent report. In addition to these deposits of self-fluxing ores, there are seams containing practically the same percentages of iron but too much silica. These ores at present are valueless, but if they could be concentrated by reducing the silica content, the ore reserves of the Birmingham district would be greatly augmented.

The low cost of gravity concentration gives this process first rank in the beneficiation of iron ores. For this reason many experimenters have tried to concentrate the Alabama iron ores on tables. In the face of the early failure a new trial has been made and the results have justified the effort.

In this work more attention than formerly has been given to the physical properties of the ores. The removable siliceous gangue is in the form of oolitic grains which "shell" out like corn, leaving the hematite as rich high-grade "slime" and as clean granular grains. The "slime concentrate" may be recovered by well-known desliming processes. The oolitic grains and granular hematite are separated on tables.

Results of this investigation have been summarized as follows by the authors of the report, F. D. DeVaney, B. W. Ganderud, and W. H. Coghill:

"The problem of the concentration of the low-grade oolitic siliceous iron ores of Alabama has been reconsidered, and a method, less expensive than that described by the Bureau of Mines in Bulletin 278, has been worked out for certain ores. The lean ore consists of relatively large, rounded quartz grains, and smaller hematite grains held together by a hematite cement. The siliceous oolitic grains may be shelled out of the ore matrix in a rod mill, using a special type of grinding media consisting of rubber-covered iron rods to disintegrate the ore into its component minerals.

"After liberating the grains, the quartz oolites may be rejected by gravity concentration with tables. The hematite is reclaimed as clean slime and as table concentrate.

"Tests have been made to determine a practical flow sheet, the degree of concentration, and possible recovery.

"A typical unit or section for a concentration plant has been outlined, which would treat 12 tons of ore per hour. The unit would consist of a rod mill using rubber-covered rods, a drag desliming, a 10-spigot classifier, and 10 tables. A certain test indicated that 12

tons per hour of mill feed will give 8.7 tons of concentrate, containing 47.6 per cent iron, 14.2 per cent silica, and 5.5 per cent lime. The cost of treating would be about 40 cents per ton of ore milled."

Further details are given in Serial 2937, "Gravity Concentration of Alabama Oolitic Iron Ores," copies of which may be obtained from the Bureau of Mines, Washington, D. C.

#### \$650,000 Medical Arts Building

To provide office space for doctors and dentists in Knoxville, Tenn., plans have been made by the Arts Building Co., Inc., of that city, Dr. M. M. Copenhafer, vice president, for erection of a large building at the corner of Main and Locust streets. The structure has been designed for 14 stories, 10 stories



New Building for Knoxville

to be erected now, with provision for erection of additional floors when demand justifies. General contract, which also includes erection of a 150-car garage, has been awarded to Worsham Bros., Knoxville. Manley & Young, architect-engineers of Knoxville, prepared plans and specifications and will supervise construction. Cost of the building will be about \$650,000.

The LaClede Gas Light Co., St. Louis, Mo., has awarded contract to the W. C. Harting Construction Co., St. Louis, for excavation and construction of foundation for a 10,000,000-cubic foot gas holder in St. Louis.

# Tariff Information

**Every Kind, Good and Bad, Reaches National Legislators—Certain Customs Officers Should Be Utilized by the U. S. Senate—Doubtful Action of the New York Merchants Association**

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 14.

**WISELY**, the Finance Committee of the Senate is reported to have decided to take up the question of valuation or the basis of valuation of imports before it considers the rates of duty in the Hawley Tariff bill. The same position was taken in preparation of the Tariff of 1922 when American valuation was eliminated from the original Fordney bill which necessitated the rewriting of every dutiable item in every schedule by the Senate. This action by the Senate Committee may mean the elimination of foreign valuation basis as written in the Hawley Bill.

Today the opposition to adequate protection originates with the importers and big interests which want discriminatory advantages in raw and semi-raw materials, all of whose efforts center in the "customs practitioners" who thrive on government refunds. Their success depends, largely, upon loopholes or loose wording of the administrative provisions of the law. In "customs practitioners" are included customs brokers, customs lawyers and lobbyists; the last named have also been known as legislative agents and now quite generally as "assistant to the president." As a rule they care little about the rates of duty but devote themselves assiduously to nullifying the tariff under administration thereof, through loose or ambiguous wording of the text of the law. One thing they fear of all others is the basis of valuation of imports. The Hawley bill included all the doubtful and antiquated provisions of valuation, but has a saving clause, as follows:

"Any decision of the appraiser that the foreign value or the export value, or both, cannot be satisfactorily ascertained shall be final and conclusive upon all parties in any administrative or judicial proceedings, and the value of the merchandise shall be determined in accordance therewith, unless within ten days after notice of the appraisal is given under section 501, the consignee, or his agent, files with or mails to the Secretary of the Treasury a request for a review of such decision."

This simply means that the importer must abide by the classification of valuation determined by the Appraiser of Merchandise unless he obtains permission of the Secretary of the Treas-

ury for review of the Appraiser's finding. This would reduce the number of the importer's protests by thousands per month. Today the customs broker, without cost, "protests" or "appeals" every invoice which by any stretch of imagination may be reduced in value or changed in classification by the U. S. Customs Court. The "customs practitioner" was very quiet during the preparation of the Hawley bill but this provision aroused him through the Merchants Association of New York, which on May 27 sent a telegram of great length to Chairman Hawley, reading in part as follows:

"This association strongly urges the Ways and Means Committee not to retain provision Section 402, Paragraph B, pending tariff bill giving appraisers of merchandise final determination of basis of dutiable value subject only to appeal to Secretary of the Treasury. We believe the present system of court review such decisions imperatively necessary in interest of uniformly fair and legal treatment of domestic manufacturers producing competing merchandise as well as of importers. These administrative officials should not have such judicial powers. Also believe provision Section 518, changing name Customs Court to Board of General Appraisers highly undesirable. Such change can effect no helpful purpose, and will injure prestige and efficiency of this important body in United States and foreign countries."

This action, in my judgment, would not have been taken if the subject had been presented to the full membership of the association, but the association acts through committees, and is as bureaucratic as the customs administration itself. Organized "to foster the trade and welfare of New York," it has grown into a big concern and has 35 standing committees, which have: "Authority (under Article X of the By-Laws) to exercise all powers of the Board of Directors, whenever the Board be not in session." The action of one of these standing committees practically becomes the action of the association; thus they have 35 bodies all in one. The tariff is handled by committee number 13, "Customs Service and Administration, Administration of Customs and Customs Administrative Acts," the chairman of which is a customs lawyer and who said through the New York Times of December 2, 1928, "Let me write the administrative act and I care not who fixes the

rates of duty." Formerly private secretary to U. S. General Appraiser Israel F. Fischer from the time of his appointment in 1899 for several years, and finally becoming a customs lawyer, he was naturally familiar with every weakness of the tariff laws and their administration. Now, for some years, he has been chairman of this all-important customs committee of the Merchants Association which has steadfastly leaned against the national policy of protection, notwithstanding a large number, possibly a majority, of its members are Protectionists.

The second request of the Merchants Association was in opposition to changing the name of the U. S. Customs Court back to Board of General Appraisers. Naturally a customs lawyer who had graduated from the service of General Appraiser Fischer, now Chief-Justice Fischer of the Customs Court, and who practices before this court or board, wants to please that tribunal in its desire to be known as a court instead of a board, and the Merchants Association seemingly concurs in this. Thus it will be seen that "customs practitioners" were seemingly responsible for delivering the action of a great and influential association against the judgment of the Ways and Means Committee, H. R., without the knowledge or consent of its own members, one of whom said to me, "I knew nothing of this matter until I saw it referred to in the newspapers."

It seems almost impossible for our national legislators to investigate the preparation of petitions and the passage of resolutions or declarations, etc., but in affidavit form they would be fewer and more dependable. Certain it is that much of the mass of recommendations now reaching the Finance Committee should be eliminated.

On the other hand, more accurate and first-hand information should be sought in preparation of a new tariff bill. The "Examiners of Merchandise" and the "Special Agents" are the two great field forces of customs. They know the laws and effects of them. There are about 9000 officers in the customs service. Of this total there are about 250 examiners and 150 special agents. Examiners see the imported merchandise, pass upon its conformity to the invoice, name the rate

of duty assessable and if the invoice is correct initial it in red ink, if not correct make it correct according to their official information, preserving evidence for future action. Special Treasury Agents are investigating officers of everything assigned to them by the Secretary of the Treasury, especially undervaluation, and classification of imports. It was Secretary Manning, I think, who said, "The Special Agents are the eyes and ears of the Secretary of the Treasury." These 400 officers know the operation and effect of our laws, and may be requisitioned through the Secretary of the Treasury by the Finance Committee, for their testimony as to any question arising under our tariff laws. Any or all of these officers would appear and testify under their oath of office.

Advisors should not be chosen from among favorites as was the case in 1919—but rather the selection of officers could be made at random with the choosing of perhaps a group of ten at a time ordered to Washington for information for the use of members of the Finance Committee. If given the protection of the committee, information would be forthcoming of the greatest value to its members. In the early part of the Ways and Means tariff hearings an officer of experience sought to be heard. This was arranged, but in the course of a few days a superior officer having heard of the assignment informed the expectant witness that he would better not appear before the Ways and Means until he had had the consent of the department, which was not forthcoming. This witness had requested to appear before the committee to testify for what he thought would be improvement in the service with which he was familiar. The discouragement of his superior officer ended his zeal to give information and he dropped the matter. This is only one illustration of how the men within the service feel that voluntary information is not sought from them. Apparently Secretary Mellon could have known nothing of this incident.

A system has grown up wherein the "Examiners" and "Special Agents" who should be the virility of the administration of customs seem afraid to do their duty as American officers of customs—afraid of the "customs practitioners" who always claim great influence and have much influence in demotion and promotion, and afraid of displeasing the higher-ups by strict administration of the law governing importations. Examiners and special agents are the "key" men of the collection of customs, and know the methods and practices of those who would evade the law. If they were utilized by the Senate Finance Committee for information about how the holes in our tariff could be plugged up; how

the law could be made one of simplicity and rigidity; how the customs service could be expedited without government loss; how good service could be rewarded and bad service exterminated; how in some instances the rates of duty could be reduced without sacrificing protection; how other rates could be raised to secure adequate protection; and finally, how to popularize the protective tariff by successful administration, that body would have inexhaustible remedial data.

Senators have little knowledge of actual customs administration and its complicated machinery. I do not recall that it has been thoroughly investigated in the history of the nation, but there have been many gestures to that end. In 1925 Senator Smoot was requested to support a thorough investigation of the customs service by a joint select committee of the Senate and House of Representatives for the purpose of laying the basis for future tariff legislation. The idea was to begin with preparation of the invoice abroad and follow the merchandise to

the American port of entry and throughout the customs service to the purchaser. "Good plan," said Mr. Smoot, "and will you please name six members of the House and Senate who are competent to conduct such an investigation." The plan got no further. Utilizing the Examiners and Special Agents for the next sixty days Mr. Smoot and his colleagues could accomplish almost as good results as with the thorough congressional investigation suggested.

Opponents of the protective tariff, except theorists, know how to influence tariff legislation much better than do domestic producers, because they have lived in, on and out of the import trade while the domestics go along in the old rut until they are hit by the competition of foreign goods, possibly allowed entry by some new change of rates through new customs decisions or undervaluation. If—if our administrative provisions are made as I know Chairman Smoot wants them the tariff act of 1929 will prove to be the best in our history.

## \$1,850,000 for New Plants at Savannah

### Asphalt Refinery and Roofing Plant to Be Erected

Savannah, Ga.—Through the Industrial Committee of Savannah, Robert W. Nelson, New York, secretary-treasurer of the Certain-Teed Products Corp., of St. Louis and New York, announces that the Pan American Petroleum and Transport Co., New York, through a Georgia subsidiary to be incorporated and named later and interests identified with the Certain-Teed Products Corp., will build adjoining plants on the Foundation tract near Savannah on the Savannah & Atlanta Railway, both plants to be completed about January 1, 1930. An asphalt refinery with an initial daily capacity of about 4000 barrels will be built at an estimated cost of \$1,250,000, while the first plant to be erected by the Certain-Teed Products Corp. will have an annual capacity of 1,500,000 squares of asphalt roofing and will cost approximately \$600,000. This plant will also manufacture miscellaneous products including roof coating and asphalt cement.

Upon the completion of the roofing plant, it is understood that a felt mill will be added, with the probability that this will be followed by a gypsum or paint and varnish plant, to increase the investment of the company by \$1,000,000. Both local companies will be operated under the direction of their respective parent companies and the prod-

ucts of the roofing company sold by an organization at the Savannah plant. The corporations are working on designs for the plants, which will be modern as to buildings and equipment. Local surveys for the sites will have been completed in about 30 days, when actual construction will begin. The Pan-American company has secured 100 acres for its purposes and the Certain-Teed Company 50 acres, sites of sufficient proportions to enable both companies to expand their manufacturing facilities as required.

The location of the plants at Savannah was effected through the co-operation of all Savannah interests, it is said, the Mayor and city officials, the Industrial Committee and Charles E. Gay, Jr., receiver of the Savannah and Atlanta Railway having worked on details for several months.

### Power Meeting and Exhibition

The National Association of Power Engineers will hold its forty-seventh annual convention and power show in conjunction with the National Exhibitors Association in Chattanooga, Tenn., September 9 to 13. A large attendance of engineers and visitors is expected. There are still some booths left; address George T. Smith, booth sales manager, care Hedges-Walsh & Weidner Co., Chattanooga, Tenn.

# Building and Loan Associations Making Substantial Progress in the South

Resources Increasing More Rapidly Than for Rest of the Country

By DR. ALBERT S. KEISTER, Professor of Economics, North Carolina College for Women, Greensboro.

ONE aspect of the rapid industrialization of the South often overlooked is its decentralized nature. Instead of a few large cities growing at the expense of others, there has been a substantial growth of scores of smaller cities. This has made it possible for these communities to guide their own growth, to avoid congestion, to create zoning plans and building ordinances before rising values made the cost prohibitive. Another result of the South's decentralized growth is that opportunity for work has been brought near to so many rural people. Agriculture in many areas has been an unprofitable vocation. Many engaged in it have been starved out; fortunately, opportunities for employment have appeared in nearby cities.

With the influx of new people there was need for additional housing in these cities. This has been supplied, in general, without profiteering or excessive rentals. Plenty of land and capital, available on reasonable terms, is largely responsible. Other agencies actively at work to supply good housing at reasonable cost include the building and loan associations. These institutions have placed large sums in home building during the past few years. The associations in Louisiana, for example, had over \$163,000,000 outstanding in mortgage loans in 1927, while North Carolina associations had about \$83,000,000, and Florida over \$35,000,000. Since the average loan is about \$4000 this implies that something like 70,000 homes were being financed in those three states alone by the associations. Counting five persons to the home, this means that over a third of a million residents in the three states were being sheltered in homes recently financed by building and loan associations.

Few people realize how rapidly these associations have grown, not only in the South but throughout the United States. Perhaps no other financial institution can equal their record. We are accustomed to think of banks as our most prominent agency handling money and rightly so; it is interesting, therefore, to compare the growth of banks and of building and loan associations in recent years. Taking the annual reports of the Comptroller of the Currency for the statistics on banking and those of the

secretary of the United States League of Building and Loan Associations, the following comparison is made:

	1921	1927	Per cent increase
Resources of all reporting banks in the United States	\$49,671,000,000	\$68,764,000,000	38
Resources of all building and loan associations....	2,520,000,000	7,179,000,000	185

While the associations are much less important financially than banks, the figures show that they have been growing almost five times as rapidly during the seven-year period. In 1921 building association resources were about 5 per cent of that of all banks, while in 1927 their resources were 10 per cent.

It is impossible to make an exact comparison between building and loan associations and banks in all the Southern states for these years because of incomplete reports. In 1921 the associations in some Southern states were not represented in the annual report of the secretary. So far as data are given for the associations the following table reveals their status:

ASSETS OF BUILDING AND LOAN ASSOCIATIONS IN THE SOUTHERN STATES,  
JANUARY 1, 1921 AND 1927.

	1921	1927	Percentage increase
West Va....	\$10,700,000	\$36,128,000	238
Virginia . . . . .	*	50,150,000	...
N. Carolina . . . . .	26,000,000	91,000,000	250
S. Carolina . . . . .	5,777,000	23,000,000	298
Georgia . . . . .	*	2,500,000	...
Florida . . . . .	*	40,840,000	...
Alabama . . . . .	*	43,601,000	...
Mississippi . . . . .	*	15,418,000	...
Louisiana . . . . .	46,184,000	174,818,000	278
Texas . . . . .	3,252,000	92,632,000	2750
Arkansas . . . . .	17,887,000	35,830,000	100
Kentucky . . . . .	35,000,000	85,510,000	144
Tennessee . . . . .	3,500,000	9,127,000	161
Average for states reported in both years . . . . .		269	

\*Not reported.

While banks in 13 Southern states increased their resources 27 per cent between 1921 and 1927, the building and loan associations in the eight states reporting increased their resources 269 per cent or practically 10 times as rapidly. While the building and loan associations throughout the country as a whole grew 185 per cent during this period, those in the South grew 269 per cent. Texas made the most rapid gain, with assets increasing from \$3,000,000 to \$93,000,000.

Probably the chief reason for this rather astonishing growth lies in the economic prosperity of the South and the vital appeal of these institutions to both borrowers and savers. To the borrower the associations present the argument that their terms are well adapted

to his financial condition because he can borrow a liberal percentage of the total cost, and pay back his borrowings in monthly sums comparable to rent. The fact that the association lends 65 to

70 per cent and occasionally even more of the fair value of the property means that second mortgage financing is in many cases unnecessary. The home owner is spared the costly commissions or service charges so often imposed. Building and loan associations find it safe to advance such a high percentage of cost because they are officered by local men who have a better knowledge of the moral risk involved in their loans and because the loan begins to diminish immediately through repayments. Many associations allow the borrower to choose different terms of payment, thereby permitting him to work out of debt rapidly or slowly. Advantages of repayment in monthly installments, so long a standard feature of building and loan associations, have now been recognized and adopted by some of the other home financing agencies. Certain mortgage houses and life insurance companies have in recent years revised their loan plans to this end.

To savers, the building and loan associations speak of the safety of the investment, the generous returns earned on savings, and the ease with which money can be withdrawn in case of need. Evidently their appeals have fallen on fertile ground for, as the record shows, the yield in increased resources has been several hundred-fold.

## For the Concentration of Florida Fruit Juices

The Russ Co., Inc., of South Bend, Ind., in a letter to the MANUFACTURERS RECORD, writes:

"We have received your Blue Book of Southern Progress. This comes to us at a particularly opportune time. We own control of a patent for the concentration of all kinds of fruit juices and are considering going into Florida for the citrus crop and into some of the other Southern states. Our process would utilize the surplus crop. The information contained in your book gives us the location of the territory producing the large crops of the various fruits. We think it will mean some very substantial plans to utilize the waste crops in Florida and other Southern states."

## Virginia's Appeal to the Vacationist

Not so long ago, the coming of spring turned the thoughts of vacationists to the North for summer trips, and their eyes to maps of New England and Canada and the highways along the Great Lakes. In later years the South has become more and more alluring, and now each spring and summer and autumn

calls thousands of tourists by motor car and by train into the Shenandoah Valley of Virginia and to the mountains and the seashores of the South.

As a road to many resorts of widely varied attractions, besides its own scenic beauties, the Shenandoah Valley road is probably the best known Southern high-

way. On autos with license tags of every State are seen pennants bearing the names of the various grottoes and caverns which attract thousands to their wonders each year and to the Natural Bridge and, as a side trip to Charlottesville, the home of Thomas Jefferson, and the thousand and one other features of



(Courtesy Norfolk & Western Railway)

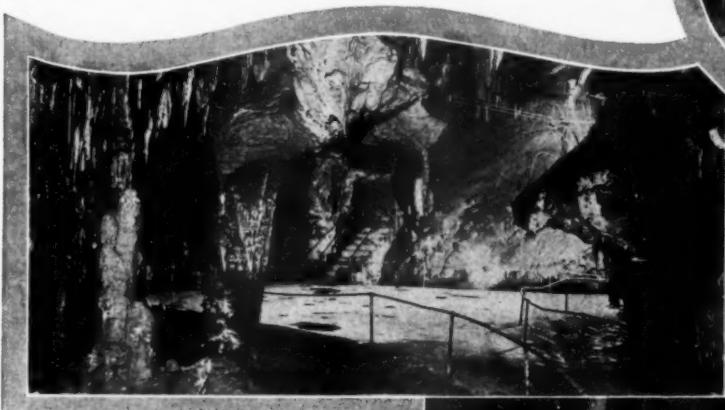
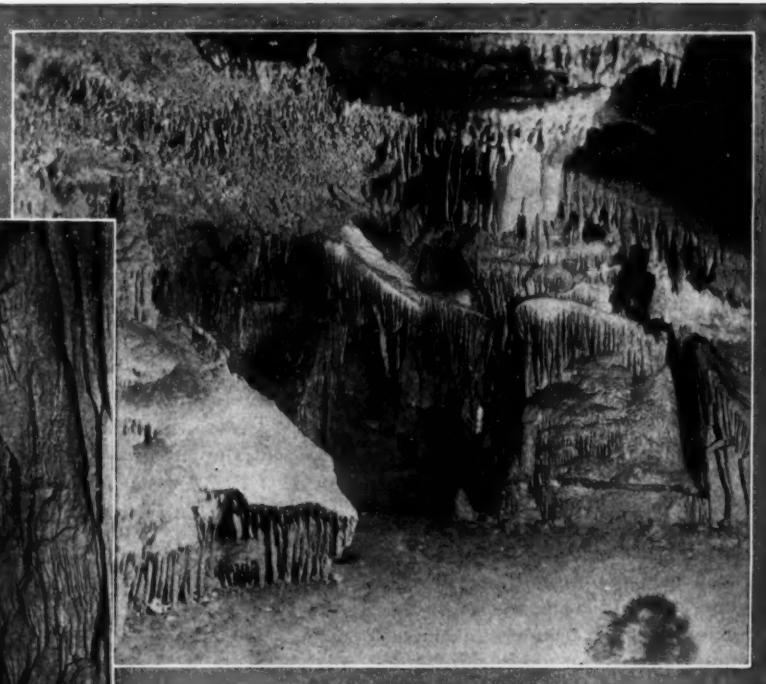
Natural Bridge of Virginia in Its Rugged Beauty, a Mecca for Tourists Since the Days of George Washington

This great bridge of limestone is 215 feet high, 100 feet wide, and the natural arch has a span of 90 feet

Right—The Persian Palace,  
Grand Caverns, Magnificent  
in Brilliant Colors of the  
Orient



Cathedral Hall, Grand Caverns, 250 Feet Long



Imposing Entrance to the  
Ballroom, Caverns of Luray

Right — In the Cathedral  
Caverns of Luray, Showing  
an Amazingly Beautiful  
Variety of Formations,  
Equally Beautiful in Color



(Courtesy Norfolk & Western Railway)

that section. People pour into Southern vacation spots in ever increasing number.

As "Nature's wonders," the caverns and grottoes are possibly the greatest spectacular attraction to tourists. Open at night as well as by day, the dozen caverns on the Valley road, or near it, are filled with visitors at all hours. Guides escort the sightseers for miles underground, along safe paths illuminated by electric light, and each grotto and cavern has individual features of its own, so that no two are alike and a visit to each is a novelty and enchantment.

In all these caverns, the stalactites and stalagmites are outstanding features. From the limestone stalactite, hanging down from the "ceiling," a minute drop of water falls every three or four seconds and the infinitesimal bit of limestone in each drop helps to form the upgrowing stalagmite, until in the course of decades or even centuries the stalactite and the stalagmite unite in an unbroken column. So, in the varied stages of growth of the stalactite and stalagmite, and in other chiseling of the limestone rock by the underground moisture, wonderful pictures are carved, as cunningly and realistically as though by the hand of man. For instance, in one cavern are the Persian Palace, the Ball Room, and the Cathedral, 260 feet long, about 35 feet wide and 40 to 70 feet in height. A beautiful Crystal Lake is a feature in another, and a wedding scene, with bride in white, and the bridegroom and attendants, presents a marvelous sight. On the ceiling and along the walls are seen animals, and trees and fruit, and all kinds of replica, all chiseled by nature and without a touch of human artistry. Particularly well known are Grand Caverns, Luray Caverns, Shenandoah Caverns and Massanutton Caverns, and there are others also.

Down the Shenandoah road from Winchester through the caverns section and beyond Staunton, one reaches Natural Bridge, "God's greatest miracle in stone," a Mecca for admiring visitors since the days of George Washington. With a natural span of 90 feet, this great limestone bridge is 215 feet in height and 100 feet wide on the top. Over it runs the Shenandoah highway and at each end is one of the five round-top mountains which rise from the valley floor. Originally Thomas Jefferson owned Natural Bridge, having acquired it by grant from King George III in 1774, and of it Jefferson wrote: "It is impossible for the emotions arising from the sublime to be felt beyond what they are here; so beautiful an arch, so elevated, so light, and springing as it were up to heaven, the rapture of the spectator is really indescribable. This bridge affords a public and commodious passage over a

valley which cannot be crossed elsewhere for a considerable distance."

And along the entire route from Hagerstown down, through Winchester, Harrisonburg, Staunton and Lexington to Roanoke and beyond, are fine hotels and inns and clubs, with many golf courses and other attractions; often with streams or lakes; low land and high—an ideal vacation area, with ideal summer climate, full of life and health and happiness.

From New England, New York and the North in general, fine highways run through beautiful country to Baltimore, whence two routes are open to the caverns and the Natural Bridge. By one, the tourist goes through Washington and across to Berryville and Winchester, on the Shenandoah Valley road. By the other, the traveler follows a delightful road to Frederick, the town of the legend of Barbara Frietchie, down to historic Harper's Ferry, at the junction of the Potomac and Shenandoah Rivers, where John Brown lies buried, and then to the "Valley." The roads are in fine condition and the traveler is sure of a pleasant resting place wherever night may overtake him.

#### Cement Production and Shipments

Production of 16,151,000 barrels of finished Portland cement in the United States in May of this year is reported by the Department of Commerce, a decline from 17,308,000 barrels in the same month of last year. For the first five months of this year, production was 58,273,000 barrels, compared with 59,564,000 in the same period of 1928. The district composed of Virginia, Tennessee, Alabama, Georgia, Florida and Louisiana produced 1,276,000 barrels in May of this year; the Western Missouri, Oklahoma, Nebraska and Kansas district, 1,117,000, and Texas 655,000 barrels. In shipments of 13,265,039 barrels into various states in April, 1929, the following were to the South: Alabama, 166,925 barrels; Arkansas, 99,392; District of Columbia, 97,218; Florida, 101,227; Georgia, 139,353; Kentucky, 163,059; Louisiana, 105,290; Maryland, 169,575; Mississippi, 76,425; Missouri, 405,208; North Carolina, 224,791; Oklahoma, 309,739; South Carolina, 131,517; Tennessee, 231,259; Texas, 694,150; Virginia, 176,266; West Virginia, 93,098; total, 3,384,492, or about 24 per cent of the total. Exports of hydraulic cement in April were 64,145 barrels, valued at \$218,316, and imports in the same month were 89,668, valued at \$114,281. Exports for the first four months of this year were 270,749 barrels, \$962,072; imports were 491,809 barrels, valued at \$528,168.

#### Two Big Liars

*Among the interesting stories told at the recent Confederate Reunion in Charlotte was one offered by Geo. B. Anderson of Rock Hill, S. C., as follows:*

During the winter of 1864, when the Union Army was lying in trenches in front of Petersburg, Va., furloughs were very hard to get. But Pat McCloskey determined to make a bold attempt to get one. So, one morning he marched to the Colonel's tent, tapped on the tent flap, and was told to "come in." He entered and saluted, and said: "Colonel, I've come to ax you to be so good as to allow me the pleasure of a furlough to go home. I've been in the field now goin' on three years and never been home to see me family. An' I just had a letter from me wife wantin' me to come home so bad to see her an' the chil'der."

"No, Pat, I am sorry," said the Colonel, "I don't think you ought to go home. I have just had a letter from your wife myself, and she doesn't want me to let you come home. She says you will just get on a beastly drunk as soon as you get there, and be a disgrace to her and the children as long as you are there. I guess you had better stay right here until your time of service is expired."

"All right, Colonel," said Pat, as he moved towards the door. Halting there in an uncertain sort of way, and fumbling his well-worn cap, he turned about and said:

"Colonel, dear, would ye pardon me for making a remark or two on this occasion?"

"Certainly," answered the Colonel, "what is it you wish to say?"

"An' ye won't git mad at me, an' put me in the guard house for saying what I'd like to remark?"

"Of course not. Speak out your mind with perfect freedom."

"Well, thin, Colonel, darlint, I be after thinkin' that there are at the presint moment under the roof of this tent two of the biggest liars in all the Army of the Potomic, and I am one of them. Colonel, darlint—I have no wife."

#### South's Productive Power Shown

The tremendous contributions by the South to the industry and prosperity of the Nation are shown in figures on the productive power of the South, in the Blue Book of Southern Progress, just issued for 1929 by the MANUFACTURERS RECORD. To \$15,045,930,000 of agricultural products in the United States in 1928, the South contributed \$5,184,646,000, or 34.4 per cent. The latest figures for manufactured products and mineral products are of 1927, as follows: Manufactured, United States, \$62,721,375,881; South, \$10,371,793,477, or 16½ per cent. Mineral, United States, \$5,520,000,000; South, \$1,836,575,000, or 33½ per cent. Gross value of all products, United States, \$83,287,305,881; South, \$17,393,014,477, or 21 per cent.

## A Spectacular Sale of Waterfront Property in Baltimore for \$14,000,000

**T**HE Canton Company, owning a large waterfront property, a railroad, wharves and warehouses, has been sold to the Irving Trust Co., of New York, at \$536 per share, the stockholders to receive a \$4 dividend, making the price really \$600 a share, amounting to \$14,000,000.

It is reported that the purchase was made in the interest of the Pennsylvania Railroad in its effort to block the Baltimore and Ohio from securing the property, as the Baltimore & Ohio had asked the Interstate Commerce Commission the right to buy the short railroad of the Canton Company, connecting with various industries on the latter company's property and on the waterfront.

There is also a rumor that the Pennsylvania Railroad, which is preparing to spend over \$22,000,000 on improvements in and around Baltimore, is favoring the establishment by the Wabash System of a new trunk line from the West to Baltimore to offset the activities of the Baltimore and Ohio, and that this Canton purchase was made for the benefit of the Wabash System.

Regardless, however, of which road has secured the property, its value will be very great to the buyer. This property has an unusual strategic location as relates to the heavy commerce and industrial development of Baltimore.

Located on the lower harbor in the Canton region and on property formerly owned by the Canton Company is the great plant of the Baltimore Copper Smelting and Rolling Co., the largest of its kind, it is claimed, in the United States. In the same section of the city, in the Riverview part of Canton, the Western Electric Company purchased some months ago a site on which it is now building a \$25,000,000 plant. The City of Baltimore is developing a municipal airport in the Canton area, while Glenn L. Martin Company recently purchased a large acreage for the construction of an airplane factory, the first unit of which is estimated to cost \$1,250,000.

The history of the Canton Company, which was organized more than a century ago, is interesting. In 1828 the founders of the company purchased a large farm overlooking the Patapsco River owned by Captain John O'Donnell. Capt. O'Donnell called his plantation "Canton" after the port of that name in China. Even in those days it was true of Wall Street, as it is today, according to a description of Wall Street's activities, that "it knows the price of everything but the value of nothing." Hearing of the organization of the Canton Company, and supposing in some way it was an organization connected with Canton, China, New York speculators traded

rather heavily in the stock, not learning for some time that it was a Baltimore company and not a China company.

Peter Cooper, a New York capitalist and philanthropist, and afterwards head of the great metallurgical firm of Cooper Hewitt & Company, purchased stock in the Canton Company. He built a rolling mill and later sold his interest in the Canton property, taking part payment in stock.

In December, 1928, the Canton Company was incorporated by the Maryland legislature.

In 1866 the Union Railroad was chartered as an enterprise of the Canton Company. It was built at a cost of about \$3,000,000 and is now used by all the Pennsylvania trains to and from New York.

In 1882 the Union Railroad was sold to the Northern Central Railway Company, now a part of the Pennsylvania System.

The Canton Railroad, which was included in the sale of the Canton Company property for \$14,000,000, was started in 1907 and completed in 1914. The present officers of the company include Walter B. Brooks, President; John K. Shaw, Vice-President; Ernest Tucker, Secretary and Treasurer; and Milton Shreck, Assistant Secretary and Assistant Treasurer.

### Remarkable Development of Commerce at Houston, Texas

The Board of Engineers for Rivers and Harbors has issued a revision of the report on the Port of Houston, Texas, constituting Part 2 of Port Series No. 6, prepared by the Board in cooperation with the Bureau of Operations, United States Shipping Board. This report says:

"Houston furnishes a noteworthy example of a successful port at an inland point originally inaccessible to ocean vessels. Situated on Buffalo Bayou, approximately 50 miles from the sea, its present position as an important gateway for import and export trade is due in some measure to its location as a railroad center, but principally to the enterprise of the city in carrying out a comprehensive plan and policy for the development and utilization of the port."

"The commerce of the port has grown from 1,161,424 tons in 1917 to 12,981,113 tons in 1928. Of the total waterborne commerce at the port during the calendar year 1928, 366,825 tons were imports,

4,500,000 tons exports, 919,382 tons coastwise receipts, and 5,270,848 tons coastwise shipments. Petroleum products and iron and steel manufactures were the principal commodities imported; petroleum products, cotton and cotton seed products the principal exports; petroleum products, iron and steel manufactures, canned goods and sugar the principal commodities received coastwise; while the coastwise shipments were petroleum products, copper, cotton and rice.

"The modern terminal facilities both at the turning basin and at Manchester, two miles below the turning basin, are served by a belt line railway connecting with all the railroads at the port. There were 43 piers and wharves at the port in 1926 used for transportation purposes, including two grain loading berths serving a new 1,000,000 bushel capacity grain elevator. These facilities were served by 54 steamship lines plying in the foreign service and nine lines operating coastwise."

Houston, Tex., will open bids August 1 for the purchase of \$931,000 4½ per cent school bonds, due from 1952 to 1958.

### \$3,000,000 Bond Issue Planned

Port Arthur, Tex.—Mayor J. W. O'Neal announces that a bond issue of approximately \$3,000,000 will probably be presented to the voters of the city within the next three months. Improvements contemplated embrace a seawall about 4 miles long, nearly 50 miles of hard-surfaced streets, filling in Thomas boulevard ditch and probably the construction of a new pleasure pier.

### \$1,000,000 Hotel Contract

Enid, Okla.—General contract has been awarded to D. C. Bass & Sons, Enid, for constructing the new Youngblood Hotel here, to be erected by a company headed by L. S. Youngblood, of Wewoka, Okla. The building, to be 14 stories high, will contain 275 rooms and will cost about \$1,000,000. Alonzo H. Gentry, Kansas City, Mo., and Guy C. Reid, Oklahoma City, are the architects.

# A Duty on All Imports Essential to National Prosperity

West Cummington, Mass.

June 10.

*Editor Manufacturers Record:*

Tariff history is a history of quick expedients and long range political mistakes.

The basic fact under the tariff is that the farmer, miner and laborer in the United States requires tariff protection to maintain fair existence here. The votes which have placed the Republican party in power at present are the votes of the farmer, miner and laborer: a few capitalists and manufacturers votes are nothing. Legislators in Washington of course know this, but there is no harm in reminding them. Any legislator who forgets it will be himself forgotten in some future election or nomination.

The country, politically, requires and wants a protective tariff system and always has wanted it.

The Democratic party when in power has been prone to write a tariff law of generally low duties, but with a certain consistency or principle back of it, namely, as a means of raising revenue, but has been afraid to apply the principle in a thorough-going manner. A tariff law taxing imports to the fullest extent on the principle of raising all the revenue "the traffic will bear" would apply a scientific yardstick, for the reason that the foreign producer with the cheapest labor, or slave labor, or the next thing to it, would be the most heavily taxed, as he should be and the imports from Canada, where labor conditions are similar to ours, and the competition of which is healthy competition and not demoralizing competition, would be taxed the least, as should be the case.

With the country in desperate need of a sledgehammer tariff, the pussy-footed Democratic tariffs have led the country into misery and despair; our plants have closed down and become covered with rust. As a reaction, the Republican power has in each instance been reinstalled and has then gone to work to recreate its own error in the way of tariff law.

What the country, as before, required and wanted was a thorough, high-principled, high tariff law, but the Republican party has to some extent gone to work and answered this demand by getting a lineup of sufficient local interests to jam a law through, leaving the minority, and especially Democratic-represented sections, high and dry and worse off than under free trade. What was going and alive, the Republicans

have petted and fostered, and what was already down and out, received a kick.

The opportunity today for the members of the United States Senate is to get up and stand for what the country wants and has always wanted. If the Republicans want to reunite the Solid South, probably the very best plan they can follow is to place Southern products especially cotton on the free list, and if the Democrats want to stay in the minority for 20 years, their best plan is to stand for a low tariff all along the line.

What the country does not want may be summarized:

The voters of the United States do not want to be asked to compete with slave labor. History shows that they will not consent to place the products of their labor in competition with the product of a slave. There is plenty of labor cheaper than slave labor, now being placed in production in some foreign lands.

The voters of the United States, as citizens of this country, are too intelligent to believe that a sound enduring economic system can be built on a tariff principle which stimulates the already successful and stifles that which is already oppressed, and that is naturally the kind of a tariff that results from lining up enough strong interests to overcome the weaker minority, and get a bill through.

The people of the United States believe in and demand representative government. The tariff laws are tax laws and must be written by Congress, and the levying and abatement of taxes by the Executive branch of the Government is foreign to the Constitution of the United States, and therefore provisions in a tariff bill which practically place the whole matter of the tariff in the hands of the President and his own Tariff Commission are contrary to our theory of government. With the tariff rates in the hands of the President's Tariff Commission, offending business heads can be cut off at any time and all business required to stand at attention before the Tariff Commission, and the workers of America can stay awake nights in a fear that the market for the products of their labor can be taken away forthwith on a mere theory of the commission. It is better to write a definite firm law and let everyone know where he stands until the next law be written. In fact, it is necessary, if the Constitution is to be respected.

There is a considerable interested party which sponsors a theory to the effect that some certain item is not produced in the United States, and therefore should be on the free list. There is no economic justification for such a theory, and there are reasons why it is bad. For one thing, it means a loss of revenue, for example, on chrome iron ore. Chrome iron ore is worth about so much in the United States. It enters into competition with domestic products, in making fire brick. Free chrome iron ore therefore to a certain extent impairs the market for American made fire brick of other competing materials. Free chrome iron ore means that certain opportunities for employment in the United States are negated to some degree and that the Government is failing to apply a legitimate means of raising some revenue. But far worse than that, it means that an American chrome iron ore mining industry can never be born, regardless of how great American resources may be and how badly the country may need such an industry and many others, in the not distant future. A Democratic-theorized tariff law is better; it would do something for this item and raise some revenue; although the attempt would be a feeble one, it would be better than nothing.

The tariff raised revenue could easily be made much larger than it is by dispensing with the free list. The extra money should be expended in bounties perhaps. This country needs at least a 50 per cent bounty on gold produced within its borders, and this would maintain our prosperity for an indefinite time to far greater degree than any other possible measure.

It is well to remind this country that some 50 years ago we were the leading gold producing country in the world, but our production is less than a fourth of that of South Africa, and much of the gold produced here is merely a by-product of ores mined for lead and copper. It is held that South Africa holds the greatest gold deposits of the world. That is sheer nonsense, or interested sales talk. Nobody knows where the world's greatest gold resources are, but they are hundreds of times greater than generally held and supposed.

What South Africa has is not super-excellent gold deposits, but it has 200,000 of the best (for the price) gold miners in the world, the Kaffirs. This labor is not exactly slave-pen labor, but is not the type of labor available in

America, and is vastly cheaper. It might be recollect that even the patient and industrious Chinese coolie imported some years back into the Transvaal to supplant the Kaffir, was a competitive failure and was sent back home.

This 200,000 strong Kaffir labor, doing difficult and dangerous work better than anybody else can do it for the price paid, produces a ton of new gold a day and has already produced 9,000 tons of gold or \$5,000,000,000. The effect of this gold flood on the lack of prosperity of the United States has been profound. Is it too much to say that it cheated the United States out of its destiny for 25 years prior to the writing of the Federal Reserve act?

The continued expansion of business in the United States cannot be financed by paper forever. There should be something coming through besides more and more paper money and credits. The United States should not have to look to foreign powers for the "real stuff." It is too much to hope that foreign governments will not apply such a resource in a way to further interests different from our interests. A bounty on gold, paid from import taxes on items now on the free list, would do more than anything else to create financial stability under American business and to some degree, of course, would also bring prosperity to parts of the country which now have little or no prosperity. A bounty on gold has been advocated from time to time by Western legislators, but the actual interest of gold mine owners is almost nothing to the interest of the country in having an independent new monetary supply to maintain a ratio between gold supply and the growth of business and industry.

The Southern states are full of gold, but labor costs prevent the exploitation of these deposits.

ANSON G. BETTS.

#### \$2,000,000 Bonds Offered

Atlanta, Ga.—Bids for the purchase of \$2,000,000 4½ per cent bonds will be received until June 29 at the office of City Comptroller B. Graham West, the bonds having been validated by the Fulton County court. Of the total issue, \$1,278,000 represent school bonds and \$722,000 sewer bonds.

#### "Missouri Facts" for All

In a single page, under the caption, "Missouri Facts for Missourians," a number of "Missouri," published by the Missouri State Chamber of Commerce, Jefferson City, gives thumbnail textual sketches of the achievements and advantages of the state. For instance, "St.

Louis holds rank as the largest spice importing and distributing center in the United States," and "fireclay in practically inexhaustible quantities is found in Henry and Bates counties." The town of Hannibal was settled by Moses D. Bates in 1718. There are seven creameries in Springfield, manufacturing about 15,000,000 pounds of butter annually—and so on. Among miscellaneous articles, "They Who Wield in Stone and Steel," by Robert C. Barnett, and "Shrines of the Covered Wagon Days" are typical of the general interest and excellence of the contents.

#### Florida Attracts Big Numbers of Motor-Tourists

During the month of May 4341 motor vehicles carried 12,397 passengers into Florida through one entrance-way into the State, where an accurate record is kept. This was the motor-vehicle count of tourists automobiles with out-of-town licenses southbound over the Jacksonville-St. Johns River bridge at Jacksonville. In addition there were the thousands of tourists who entered the state by way of other highways leading into the central and western sections, and numbers of out-of-state automobiles were shipped in by rail and water. Thus, it is apparent that motor-tourist travel to Florida continues heavy.

The list by states of Florida motor-tourists passing over the Jacksonville-St. Johns River bridge is as follows for the month of May:

State	Cars	Passengers
Alabama	644	1,932
Arizona	5	14
Arkansas	10	29
California	30	99
Colorado	4	14
Connecticut	30	95
Delaware	8	19
Georgia	1,707	4,951
Idaho	1	1
Illinois	85	216
Indiana	66	161
Iowa	10	20
Kansas	4	5
Kentucky	51	123
Louisiana	63	163
Maine	11	46
Maryland	28	79
Massachusetts	74	166
Michigan	61	168
Minnesota	9	31
Mississippi	20	54
Missouri	36	100
Montana	6	15
Nebraska	5	13
New Hampshire	2	4
New Jersey	102	244
New Mexico	2	8
New York	224	549
North Carolina	122	638
Ohio	180	495
Oklahoma	9	28
Pennsylvania	170	416
Rhode Island	3	9
South Carolina	157	445
Tennessee	117	325
Texas	70	145
Vermont	1	3
Virginia	50	148
Washington	4	7
West Virginia	7	22
Wisconsin	21	52
Wyoming	2	6
Canada	7	18
Cuba	1	1
District of Columbia	122	316
Totals	4,341	12,397

#### TO AWARD POWER PLANT CONTRACTS SOON

##### Georgia Power Co. Plans to Start Construction Operations—Equipment Orders Placed

Contracts are expected to be awarded within a few days for excavation and concrete work on the proposed \$6,000,000 Atkinson steam power plant to be constructed on the Chattahoochee River, about seven miles northwest of Atlanta, by the Georgia Power Co., of that city. As previously detailed, plans for the project were prepared by the South-eastern Engineering Co., Birmingham, Ala., and general contract awarded to the Empire Construction Co., Atlanta. Other contracts awarded to date include the following:

**Ash sluicing system and furnace bottoms**—Allen-Sherman-Hoff Co., Philadelphia, Pa.  
**Boiler plant and equipment, consisting of furnaces, boilers, pulverizing and burning equipment**—Combustion Engineering Corp., New York.

**Canx 22 Ljungstrom air preheaters, 57,000 square feet of heating surface**—Air Pre-heater Corp., New York.

**Steel tank (15,000 gallons)**—Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

**Surface condensers and auxiliaries (70,000 square feet)**—C. H. Wheeler Manufacturing Co., Philadelphia, Pa.

**Turbo generator (60,000-kilowatt)**—Atlanta branch of General Electric Co., Schenectady, N. Y.

Approximate quantities of materials required for concrete work will embrace 14,000 cubic yards of concrete, 22,000 barrels of cement and 700 tons of reinforcing steel, while the excavation work will involve 16,500 cubic yards of earth, 12,750 cubic yards of soft rock, 11,800 cubic yards of hard rock and 6000 cubic yards of back fill.

The power unit will be equipped with two boilers to generate steam at 475 pounds pressure to supply the generator and will use pulverized coal for fuel with a unit firing system. Tentative plans of the company call for the construction of three additional units as the demand for power develops.

#### Plans for \$1,200,000 Apartments

Memphis, Tenn.—Plans for the proposed \$1,200,000 Pumphrey Apartments to be erected in this city by John W. Pumphrey, local capitalist, call for 100 apartments of from three to seven rooms, roof garden with accommodations for 500, dance floor, stage and pipe organ. An arcade, shops and dining room to accommodate 200 will be provided on the ground floor and provision will be made also for a fireproof garage to accommodate 100 cars. The building will be of reinforced concrete and face brick with terra cotta trim and contracts are to be awarded August 15. Raymond B. Spencer, Memphis, is the architect.

## LETTERS FROM OUR READERS

### An Engineer's View on Improving the Mississippi River

New York, June 1.

*Editor Manufacturers Record:*

Your editorials and articles opposing the so-called Jadwin plan for control of floods in the Mississippi River have interested me very much. I agree with you that any plan based primarily on building the present levees higher is incorrect in conception and is likely to be only a palliative and by no means a cure. In fact, it may well lead to greater disasters than any we have yet experienced.

This same scheme has been in vogue in China for centuries. It follows the line of least resistance. It is the most obvious thing to do and hence has been done by backward peoples. That is no reason for us to follow their example.

What has happened in China has been found to be true of the Mississippi Valley, although as yet in only partial degree. Silt brought down from the upper reaches of the river and its tributaries has been deposited at the bottom, raising the level of that bottom and consequently raising the level of the surface of the river for any given cross-sectional area of water flowing toward the sea. As the river surface rises necessarily through this procedure, it widens and spreads over adjacent land unless and until it is stopped by levees. Hence, these levees have been built to confine the waters within a more or less sharply defined channel.

But the trouble arises from the fact that in a long period of years the continual increment of rising bottom accompanied by rising surface has lifted the river bodily a certain considerable number of feet above its earlier position. This has reached such a point that many of the streets of New Orleans are several feet below the normal surface of the river, not to mention the flood surface. In China this action has gone on for so many years that I am told there are a great many places where the bottom of the river is higher than the farming lands alongside. In other words, the river is virtually held up on stilts, as it were, and allowed to flow through the country, with the ever-present menace of disastrous floods.

What should be done to overcome this situation, if the procedure is to provide permanent relief, seems quite obvious. That it would be enormously expensive is certainly a fact, but inasmuch as it would be a permanent measure of relief and not merely a quick but inconclusive palliative, its expense might well be borne, with a bond issue running for a good many years, so that the succeeding generations would pay for the benefits they would obtain.

This procedure would consist primarily in dredging from the bottom of the river a considerable depth of the silt there and distributing this material over the low-lying lands on either side of the river in back of the levees. Much of this

silt—all of it, perhaps, except that portion which is sand and gravel—is of high value from the agricultural standpoint. This fact is amply proved by the great productivity of the lands alongside the Nile, which are annually watered by the rise of the river and upon which a layer of this very type of silt is deposited each year.

It probably would take much longer to do a job of this sort than would be required to build the levees higher. Nevertheless, in my opinion, this type of task must be performed if we are to have permanent relief from the recurrent flood trouble from which we have suffered for so many years.

SIDNEY G. KOON, M. M. E.

### Some Facts About Cement in Connection With the Tariff

Vulcanite Portland Cement Co.,  
Philadelphia.

*Editor Manufacturers Record:*

Some days ago we received your letter concerning an article by Wilbur F. Wakeman in your magazine, on the American cement industry and the tariff. This article we have read with considerable interest. There are, however, two or three errors to which we would like to call your attention.

In two places Mr. Wakeman refers to the production of cement in 14 states. As a matter of fact there are cement mills in 32 states, or more than double the number mentioned by Mr. Wakeman. He also mentions the omission of duty in 1922 and states that the main reason was that the cement manufacturers then did not care whether there was a duty or not. This is also incorrect, as effort was made to have the duty put in the Fordney-McCumber bill.

The duty on cement had been removed during the Wilson administration—our recollection is in 1913—and when the Harding administration came in an effort was made to have it restored. The bill as it passed the House and after it came out of the Senate Finance Committee had the duty in it, but the Senate removed it. We were embarrassed in our efforts by the second reason Mr. Wakeman mentions, which was the suits of the government against the cement industry for violation of the Sherman anti-trust law, but Mr. Wakeman again errs here in stating "the prosecution and conviction of the officers and directors of one of the cement associations." There was never any conviction. In a criminal suit tried in New York in the spring of 1922 the jury disagreed and this case was never tried again, but a civil suit, which had also been brought, was prosecuted by the government and a favorable decision obtained in the lower court, but on appeal to the Supreme Court the lower court was reversed.

The decisions in the cement and maple flooring cases, which came out at the same time, are a well known matter of record and are, we believe, looked upon as of great importance in trade association matters.

After the Supreme Court decision in

the civil suit the criminal prosecution was dropped.

We naturally appreciate very much your interest in the necessary protection of the cement industry under existing conditions, and trust that you will accept our corrections of Mr. Wakeman's article in the spirit in which they are written.

W. D. LOBER, President.

### Mr. Wakeman's Reply

New York.

*Editor Manufacturers Record:*

I am glad to read the letter of Mr. W. D. Lober, president of the Vulcanite Portland Cement Company, calling attention to some apparent errors in my article entitled, "The American Cement Industry."

My information as to the producing states, 14 in number, was taken from the U. S. Statistical Abstract of 1928, pp. 742, where 14 states are classified as producers of cement and "other states" I omitted. Am glad to know that we have cement mills in 32 states and hope that with the restoration of a duty on cement in the Smoot-Hawley Tariff we will soon have mills in 48 states. Since the establishment of the cement industry by the McKinley Tariff of 1890, cement has become the most important element in building operations and incidentally the great conserver of our forests.

Mr. Lober is correct in saying that cement was placed on the Free List in the Tariff of 1913 and that cement was taken out of the original Fordney bill in the Senate, but that does not affect my deductions as to the lack of activity on the part of the cement interests in final consideration.

As to the prosecutions of officers and directors of a cement association under the Interstate Commerce law, I will let the record stand for the present on Mr. Lober's statement and my own, wishing to look up the official record.

Regarding my article, I have the following from an officer of an important cement concern: "With reference to the MANUFACTURERS RECORD of May 23, I have read this article and found it very interesting and timely."

W. F. WAKEMAN.

### Sowing the Seed of Success

Derwent Farms.

Evensville, Tenn.

*Editor Manufacturers Record:*

Your paper has been for some years an inspiration and is now a greater inspiration than ever to the writer to stay put on our own lands here in the South and make two blades of grass grow where only one grew before—which is very easily accomplished in this most favored section of our country. It requires merely the sowing of the seed.

From the writer's viewpoint, based on hard rock experience, you cannot too strenuously advocate development of the dairy industry for the South.

LEE DARWIN.

# IRON, STEEL AND METAL MARKET

## Fewer Steel Orders, But no Present Decrease in Production

Pittsburgh, June 17—[Special.]—There is now a decided tapering off in orders and specifications for finished steel products, two or three months later than the usual time for seasonal decrease to develop. There is not a decrease of corresponding size, if any decrease at all, in the pace of steel consumption. The decrease in buying and specifying is probably due to consumers feeling that deliveries are going to be easier to obtain henceforth, so that they do not need to be so forehanded in making engagements.

Decrease in activity on paper has not resulted in any decrease in actual physical activity. Production of steel is still at the highest rate possible and apparently will be well maintained at least through the present month. Last month having made a new high record for all time in the rate of steel production it would be unnatural to have any large decrease.

The Steel Corporation's statement of unfilled obligations at the end of May made a remarkably favorable showing, with a decrease during the month of only 123,596 tons. It is the usual thing for May and some preceding months to show decreases. In each of the last two years May showed more than 400,000 tons decrease. This year May was the first month to show a decrease, while last year the two preceding months showed decreases and in both 1927 and 1926 there were decreases right along beginning with January.

As to activity in steel consuming lines, the automobile industry is tapering off as it regularly does at this time of year, but the total decrease is, if anything, less than the average of other years, despite the very heavy production earlier in the year, which in some quarters was expected to precipitate an unusual decrease. Both Ford and Chevrolet are doing very well, which helps greatly to keep up the total. The agricultural implement industry may take steel at a lower rate for a short time while it is changing models, passing from one seasonal class of implements to another. On account of uncertainties in crop realization prospects the amount of activity in the new season is not predicted.

Structural fabricating shops are running substantially full and have much work on books. Lettings reported last week, 88,000 tons, were the largest for any week since January of last year. The total reported since January 1 is

21 per cent above totals in the same period of last year and year before, making a contrast with reports of general building, which show a decrease this year.

Tin plate production is off fully 10 per cent from the peak rate of a month and more ago, partly because it is about time for some seasonal decrease and partly on account of frost damage some time ago to the California fruit crop and late planting of the vegetable crops generally. Chances are materially reduced of this being a record year in the consumption of packers' cans, but general line demand for tin plate is very good.

Production of steel ingots in the year through June 30 will be about 54,600,000 tons. Prior to last year the heaviest production in 12 consecutive months was 47,000,000 tons, in the 12 months through May, 1927, thus showing an increase of 16 per cent in a trifle over two years. This is much in excess of the general pace of increase in steel production in the last six and a half years, which have been very active except for short spells. General opinion is that by late in the year, if not somewhat sooner, there will be a recession from this extra pace down to the general average. Comparisons of steel with general industrial activity show that of late steel has been running ahead of its former relation.

Finished steel prices have been showing no change. It became settled some time ago that mills would seek no advances. Contracting for the third quarter is rather sluggish, consumers being more interested in deliveries to complete second quarter contracts.

## Copper, Lead and Tin Active, With Price Strength in Evidence

New York, June 17—[Special.]—The metals as a class have shown more activity during the past week, this applying to copper, lead and tin. In most cases the price tone was stronger though very few net changes were made. Tin rose to 45c per pound as against a low point of the year of 43½c, but lost much of this gain later in the week. Buying of copper was confined principally to the foreign market, domestic consumers being dormant. Purchasing of lead was the briskest since last March.

The metals were more active, if for no other reason than that they had been so dormant for so long. March in fact was the end of the buying movement in several of the metals and two months have elapsed in which business

was of the barest routine nature. Helping the activity along were certain more favorable world developments, such as the settlement of the German reparations problem and announcement of further progress in the formation of a world cartel in the tin industry to protect rapidly depleting resources.

Non-ferrous minor metals were still rather dull. Antimony has been unchanged for weeks at 8½c to 9c per pound, duty paid. Silver has hovered at around 52c per ounce, which is low as prices over recent years go. Quicksilver has been steady and unchanged at \$120.50 to \$123 per flask, depending on the country of origin. Platinum prices have been the same for the past several months.

The long-awaited copper statistics came out on Wednesday and on their surface appear highly unfavorable to the producers since surplus stocks increased, production still gained and shipments fell off quite sharply. Surplus stocks of refined copper gained 13,000 tons to about 70,000 tons, though producers point out that this is merely a two weeks' supply and that the supply could well be 150,000 tons without being top-heavy.

Production of refined copper in North and South America came to 161,784 tons, as against 161,285 tons in April and 163,561 tons in March, the record month. Total shipments were 148,866 tons, as against 156,759 tons the preceding month and 165,806 tons in the record month of March. The best figures, from producers' standpoint, pertained to United States mine production which was 93,026 tons as against 94,902 tons the preceding month. This indicates that the announced curtailment at the mines is having some effect.

Consumers of copper, however, can quote the statistics to bear out their position in abstaining from the market. They reason that if no famine took place in copper in October of last year when surplus stocks were only 45,848 tons, there is no danger of a shortage with stocks of over 70,000 tons. Producers say in rebuttal that should one large refinery break down in a serious mechanical way the shortage would be real. Export sales have averaged about 1,200 tons daily. On a few days sales were as high as 2,225 tons. Germany has been the best buyer. However, export sales are below the volume expected. There is a daily output of 5,000 tons to be bought, but this has not been absorbed. Until, however, a genuine buying movement comes and goes no good test of the copper market will be made.

There is always the possibility of consumers overstaying their market, rushing in at once and forcing up prices.

Activity in lead has been pronounced, with all principal consuming classes buying. Single orders for as much as 2,000 tons presented a welcome relief from the carload orders which have been the rule these many weeks. Consumers were buying as far ahead as August shipment. Prices were unchanged at \$6.80c per pound, East St. Louis, and 7c, New York, with no concessions below those figures appearing.

Zinc has also been more active, though not particularly brisk. The minimum price is now 6.60c per pound, East St. Louis, as against 6.55c a week ago. This new price applies merely to June shipment, with 6.65c being obtained for July and August. Stocks of zinc ore in the tri-State district are considered too large at 35,600 tons. The price of ore has been unchanged at \$44 per ton for several months.

Early in the week the rise during the latter part of the preceding week was being carried over. However, at Tuesday noon the tide turned and prices have been sagging ever since. On one day 500 tons of Straits tin was sold, the best business for a long time, but thereafter sales settled down to about 150 tons daily.

The long-view outlook for tin points to higher prices. Organizers of the international tin cartel appear in earnest and, if this proves successful, one of the first steps will be the curtailing of production, such as has been accomplished by other such cartels.

#### Fair Demand for Pig Iron Indicated for Third Quarter

Birmingham, June 17 — [Special]— Third quarter requirements in pig iron hold out bright promise though first buying does not make much of an impression. Consumers in the home territory indicate that their needs will be steady. Furnace interests are hopeful that the general readjustment on freight rates by rail and water, the steamship lines participating at Savannah, will bring about heavy movements of the product into Baltimore, Philadelphia, New York and Boston territories, many concerns in those sections having used Southern irons in the past and found it most acceptable, high costs of delivery interfering in its steady consumption. The first readjustment of rates was in the tariff from the Birmingham district to Savannah and then the barging to points on the Atlantic coast. During the coming month the general reduction in freight

rates to the points set out are to be placed into effect, if the Interstate Commerce Commission does not interfere. Report has been current that upwards of 60,000 tons of basic and foundry iron will be moved during July, August and September under the new rate, one concern to ship not less than 29,000 tons to a sister organization in the East.

Production of pig iron is kept steady, not that there is need for iron but in order to hold down the cost of production. One company reports that its shipments during the past 30 days have equalled the make and that its surplus stock is not to be described as apprehensive. Eleven blast furnaces are making foundry iron, five are on basic and one on special brand, 17 in all. Machine shops and foundries are well loaded with business, conditions for the past two years considered. Much iron will be used before contracts already in hand have been completed.

Cast iron pipe shows little change, the orders on hand warranting production around 80 per cent capacity, and the made-up stock on yards being moved off steadily. United States Pipe & Foundry Company increased its make somewhat on the first of the month by rehabilitating an old plant and placing it in service, found necessary by reason of a little spurt in business and the allocation of business from other sections.

New freight rates on pig iron from the Birmingham district to Baltimore will be 76 cents lower than at present, the new rate being \$5; to Boston the rate will be \$5.75, a reduction of \$1.16 in the old rate.

The W. M. Smith & Co., dealers in old material, are dismantling the old charcoal furnaces of the Shelby Iron Co., this state, the salvage, including boilers, blowing equipment, rails and other appurtenance to be offered on the open market. The Smith Co. is equipped for such work, not only dismantling blast furnaces but large manufacturing plants as well.

Stove manufacturers report a fairly active market, with a general good feeling over suspension of the proposed increased freight rates which were to have been placed into effect ere this. Suspension in the adjustment of rates continues until Christmas next.

Steel is far from sluggish and production is above 80 per cent capacity, 85 per cent being a fair estimate. Gulf States Steel Company has six open hearth furnaces in operation and the Tennessee Coal, Iron & Railroad Company has 16 at its Ensley and Fairfield plants. Plate, sheet, structural and other shapes are in good demand. The new cotton-tie and hoop mill of the T. C. I. & R. R. Co. is

in operation and quantity production of these products is observed.

Steel fabricating shops are active. Virginia Bridge & Iron Co. is shipping 800 tons for a new viaduct in Atlanta. Several airplane hangars have been built throughout the country by steel fabricators of this district.

Gulf States Steel will let contract shortly for its sheet mill. Announcement has been made already of contracts let for the blooming mill and plate mill, and work is under way.

The coal trade is quiet, demand being slow. Coke is steady, everything considered, foundry coke being priced at \$5. Iron and steel scrap is not active.

Quotations on pig iron and iron and steel scrap are as follows:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$15.00 to \$15.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$15.00 to \$16.00; iron of 2.75 to 3.25 per cent silicon, \$16.00 to \$16.50; iron of 3.25 to 3.75 per cent silicon, \$16.50 to \$17.00.

#### OLD MATERIAL.

Old steel axles .....	\$17.00 to \$18.00
Old iron axles .....	17.00 to 18.00
Old steel rails .....	13.00 to 14.00
Heavy melting steel .....	10.50 to 12.50
No. 1 cast .....	13.00 to 14.00
Stove plate .....	12.50 to 13.00
No. 1 railroad wrought .....	10.00 to 11.00
Old car wheels .....	11.00 to 12.00
Old tramcar wheels .....	12.00 to 13.00
Machine shop turnings .....	7.00 to 8.00
Cast-iron borings .....	7.00 to 8.00
Cast-iron borings (chem.) ..	13.00 to 13.50

#### Zinc and Lead Mining Methods and Costs

The method and cost of mining zinc and lead at a mine at Picher, Okla., are described in Information Circular 6121, issued by the Bureau of Mines. The paper contains details on early and present mining methods, including drilling and blasting practice, underground support, loading and tramping, pumping, and ventilation methods. Information regarding labor efficiency, the percentage of ore extraction, mining costs, and the working of the wage and contract system are given.

#### To Study Ash Removal

An investigation has recently been started by a Special Research Committee of the American Society of Mechanical Engineers to study the addition of fluxes as a means of removing ash from powdered-coal furnaces in the form of molten slag. The committee feels confident that a wide variety of coals can be made available for use in such furnaces by this method of ash removal. Experimental work will be carried on at the Pittsburgh plant of the Bureau of Mines. Samples of coal ash obtained in powdered-fuel plants burning a wide variety of coals are especially desired.

# AVIATION, AIRPORTS AND AIRWAYS

## Southern Airmail Involved

Harold F. Pitcairn has announced that an offer by a New York group for the entire capital stock of Pitcairn Aviation, Inc., Philadelphia, Pa., had been accepted. This company operates the airmail routes from New York to Atlanta and from Atlanta to Miami and Tampa. The sale also includes the associated companies conducting local flying services at Richmond, Greensboro, Spartanburg and Atlanta. The Pitcairn manufacturing interests—Pitcairn Aircraft, Inc., and the Pitcairn-Cierva Autogiro Company of America—are not affected by the sale.

## South Progresses in Aeronautics

Originated in the South by the first successful flight of a heavier than air machine, by the Wright brothers, at Kittyhawk, N. C., 25 years ago, the enterprise of aeronautics is developing in the South, says the Blue Book of Southern Progress for 1929, just issued by the MANUFACTURERS RECORD. The South closed 1928 with 392 airports and landing fields and 264 contemplated for early establishment. Of 5653 planes on the registration list last December, 1346, or about 23 per cent, were in the South.

## Airways Radio Installations

Radio installation to cost approximately \$1,000,000 is announced for 72 ground stations along the routes of Pan-American Airways, Inc., by J. T. Trippé, president and general manager. The airways, which eventually will reach to Buenos Aires, now link Miami with Nassau, Havana, Camaguey, Santiago, Port-au-Prince, San Juan and Mexico City and radio stations already have been installed at the terminals of these routes. All the 54 planes in service are equipped with 100-watt telephone and telegraph transmitters and the ground stations are 200-watt installations, for communicating over distances up to 1000 miles. Ground stations will be established every 200 miles on the routes through the West Indies, Central America and South America.

## Miami an International Airport

"Miami within a few years will become the Nation's greatest international airport," says an article in Domestic Air News, published by the aeronautics branch of the Department of Commerce. Even now, it adds, about 20 planes fly

every week from Miami to the Bahamas, Cuba, Haiti, San Domingo, Porto Rico and Panama, the trip from Miami to Havana, for instance, being two and a quarter hours, as against 12 hours by rail and boat.

## Snyder (Tex.) Air Enterprise

Reported as a city of 5000 population, Snyder, Texas, plans an airport appropriate to a city of 100,000, to be modern and complete in every particular and detail. The city is a junction point of the El Paso Cavern highway system, shortest route from Dallas to the West Coast, and state highway No. 7, principal outlet to Amarillo, Lubbock, Abilene and south Texas. Clear approaches will be provided in all directions, and an iron hangar has been completed to house six planes, with electric service refueling pump, administration offices, plane supply room and complete machine shop facilities. Within 100 yards of the hangar is located the first of a series of cabin inns, where hotel service is to be provided, shower baths, lavatories, telephone, telegraph, gas, water, electricity, and radio hookups in each cabin. Ten cabins have been completed, each an individual unit of stucco with wallboard interiors, and 15 more are to be built. A main depot contains a restaurant and grocery, with field superintendent's residence of six rooms and bath. At the north end of the field are the Snyder Golf and Country Club and a swimming pool, the course being free to visiting flyers and passengers. The field is a mile north of the public square, with taxi service available at the airport. D. P. Yoder, engineer and business man, is credited with originating the idea for an airport sufficiently large to take care of great air fleets, and the cabins and other features.

## Pitcairn Aviation in Atlanta

Plans for air passenger facilities at Atlanta for Pitcairn Aviation, Inc., were disclosed recently by Ralph S. Westing, traffic manager of the company, after inspection of Candler Field, the Atlanta airport, in company with James G. Ray, operations manager for the Pitcairn concern. Pitcairn plans a hangar for four tri-motor Ford passenger planes, 150 by 140 feet, to cost \$60,000, and departments for complete service on all planes and distribution and service facilities for Wright Whirlwind motors. This program indicates a Pitcairn investment of \$300,000 in Atlanta.

## Night Airport Equipped

New Orleans, La.—Alvin Callender aviation field has been opened as a night airport, having been equipped in accord with specifications of the Department of Commerce. The lighting system cost \$7000 and brings the investment in improvements to \$65,000. Floodlights have a candlepower of 1.5 foot candles and give a coverage 2000 by 18,000 feet. There are 40 boundary lights and a 24-inch beacon of 8,000,000 candlepower, making six revolutions a minute; a Crouse-Hinds 12-inch ceiling lamp, which throws a 4000-foot beam at a 45 degree angle; 18 hangar floodlights set 20 feet apart, and a wind-direction indicator consisting of four lights.

## Aviation Abroad and in America

Although Europe leads the United States in airplane passenger transportation, it does not compare in airmail service with American lines, in either economy or regularity of service, said Casey Jones, president of the Curtiss Flying service, at the recent national aeronautic meeting of the American Society of Mechanical Engineers, in St. Louis. The first reason for European supremacy in passenger service is that Europe has been using such service for 10 years. Further, the passenger fares are much lower abroad, because none of the lines is on a paying basis, but all are sustained by subsidies paid by the taxpayers. C. H. Showalter of New York University said that the Diesel aircraft engine can be brought into general use only by proving itself in actual performance.

## Airplane for Direct Selling

Harry C. Culver, president of the National Real Estate Boards Association, in the past 10 months has flown 110,000 miles and his schedule for 1929 is 100,000 miles.

"Two cities a day has been our schedule since March 5 and weather has not prevented our making it," Mr. Culver says. "This will be a wonderful education in the business use of the airplane for many parts of the country. So far we have visited more than 150 cities. In St. Petersburg, Fla., we inaugurated the new waterfront airport. Two thousand persons met us on arrival and 6000 attended the meeting."

Mr. Culver is an enthusiast in the use of the airplane in direct selling and business development.

# HIGHWAYS AND MOTOR TRANSPORT

## BIDS ON 193 MILES ROADS

### Number of Bridges Also Included in West Virginia's Program

Charleston, W. Va.—Bids will be received shortly by the West Virginia Road Commission for approximately 193 miles of road construction and for building bridges and culverts in various sections. Bids will be opened June 25 for 20 road projects covering a total of 122 miles, embracing the following: 7 miles of concrete shoulders and rock asphalt, 18.3 miles of bituminous macadam, 13 miles of stone base course, 5.8 miles of amiesite, hot mix or rock asphalt; 4.5 miles of grading and stone surface, 10.1 miles of stone surfacing, 12 miles of grade and drainage construction and gravel surface, 23.1 miles of grade and drainage construction, 0.8 mile of brick on concrete base, 16.7 miles of concrete pavement, 1 mile of concrete shoulders and amiesite, hot mix or rock asphalt, and 9.7 miles of gravel. Bridges to be awarded on the same date will include two structures in Putnam County, two in Randolph County, and one each in Wyoming, Calhoun, Ritchie, Doddridge, Gilmer and Monongalia Counties.

Sealed bids will be opened July 2 for 16 road projects, covering a total of 71.15 miles and embracing the following: 23.55 miles of grade and drainage, 4.9 miles of concrete, 19 miles of stone or slag and cold tar surface treatment, 6.3 miles of grade and drainage construction and gravel surface, 6 miles of gravel, 1 mile of amiesite or hot mix and 10.4 miles of reconstruction and road widening. Other projects to be awarded at this letting include two bridges in Mason County, culverts in Ohio and Pleasants counties, concrete bridge in Pleasants County, bridge in Doddridge County, approaches to Shinnston bridge and Main street, Shinnston, Harrison County, and the reconstruction of the floor system of Cadell bridge in Preston County.

### \$400,000,000 Invested Annually in Southern Road Building Operations

Probably in no other part of the country have investments in roads construction been more generous in recent years than in the South, says the Blue Book of Southern Progress. Roads, paving and bridge contracts published in the MANUFACTURERS RECORD last year aggregated \$254,695,000, without estimate of the cost of a great number of projects for which no cost figures were given. Contracts awarded and prepared for award

ran to \$761,000,000, and the annual investment in road building operations, in improving existing highways and other Southern roads development now runs to \$400,000,000.

### Asphalt Paving Conference

The eighth annual asphalt paving conference, to be held October 28 to November 1 at West Baden, Ind., under the auspices of the Asphalt Association, New York, is expected to be of unusual importance among road meetings of the year, as the paving of farm-to-market roads will be the outstanding subject of discussion. The Association of Asphalt Paving Technologists will hold its annual meeting in connection with the conference, at which it is expected the attendance will exceed that of the 800 registered at the New Orleans meeting last year.

### \$368,000 Paving Program

Knoxville, Tenn.—Bids are expected to be asked about July 15 on a street paving program for Knoxville estimated to cost \$368,480, exclusive of paving in the Kingston Pike district to cost about \$120,000. A major item involves paving on Vine avenue, from Nevada to McCalla avenue, at a cost of about \$35,000.

### County Roads Contracts Let

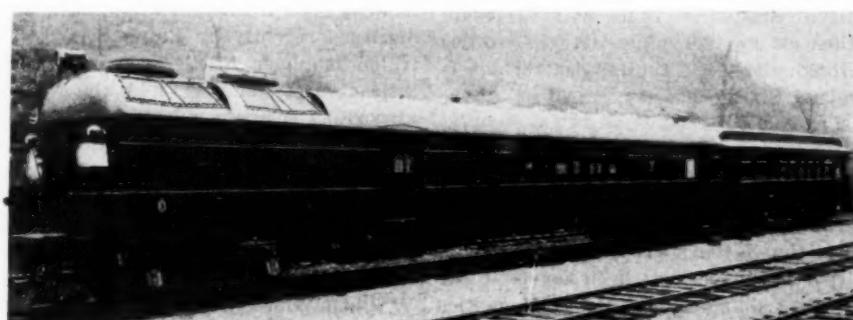
Greensboro, N. C.—Contracts have been awarded by the Guilford County Commissioners for the construction of approximately 41 miles of county roads to involve an expenditure of about \$167,000. The bulk of the work will be done by R. G. Lassiter & Co., Welker Bros. and W. L. Peacock, all of Greensboro. C. O. Lowe is the county engineer.

## Gasoline-Electric Unit for Maryland Railroad

The Cumberland & Pennsylvania Railroad Company recently placed in operation a gasoline-electric coach, manufactured by the J. G. Brill Company, Philadelphia, the car weighing approximately 150,000 pounds; it is 75 feet long and consists of an engine compartment, baggage and express room, smoking compartment and passenger compartment, with a total seating capacity of 73 persons. The coach is powered with two Hall Scott six-cylinder gasoline engines of 300 horsepower each; these drive two Westinghouse railway-type generators of 215 kilowatts capacity, each of which generates electricity for the 150 horsepower Westinghouse motors mounted on and geared to each axle.

The car is equipped with the Westinghouse torque governor control, an electrical device designed to operate automatically from the operator's position all 600-volt power circuits; it uses main generator for starting the engine; furnishes 32-volts for compressor operation, battery charging, lighting, and regulates externally the main generator voltage to give fullest possible use of the engines.

The motor car is an unusually high powered unit, necessary on account of the heavy grades on the railroad, especially between Mount Savage and Frostburg, Md., where the ruling grade is 2.50 per cent and the maximum 3.25 per cent. It is designed to haul a standard baggage, mail and express car and a standard coach as trailers.



Highly Powered, for Service on Heavy Grades

# TEXTILE

## CONTRACT LET FOR SECOND UNIT OF RAYON PLANT

**American Glanzstoff Corp. to Go Forward With Work at Bemberg, Tenn.**

The American Glanzstoff Corp. has awarded contract to the Hughes-Foulkrod Co., Philadelphia, Pa., for constructing a second unit to its big rayon mill at Bemberg, near Elizabethton and Johnson City, Tenn., which will double the capacity of the existing plant and cost about \$7,000,000. Contract for 2300 tons of steel has been awarded to the McClintic-Marshall Co., Pittsburgh, Pa. The Lockwood Greene Engineers, Inc., New York, engineers for the first unit, are also handling engineering details of this unit.

### New Storage for Hanes Mill

Winston-Salem, N. C.—General contract has been awarded by the Hanes Dyeing & Finishing Co. to the Frank L. Blum Co., local contractor, for the erection of a \$15,000 building at its mill here for storing finished and unfinished goods. The addition will be one story, of brick construction.

### Dwellings for Textile Mill

Spartanburg, S. C.—The Fiske-Carter Construction Co., of this city, general contractor to erect the new mill near Spartanburg for the Fairforest Finishing Co., has been awarded contract to erect 30 dwellings for employees of the mill. The houses will be of frame construction to contain from 4 to 6 rooms, and will be erected in the new mill village. The Lockwood Greene Engineers, Inc., Spartanburg, are the engineers on the project.

### New Uses for Textile Bagging

What is claimed to be the first consignment of ax handles packed in textile bags ever sent out by a manufacturer to a retailer has been delivered to the Carolina Hardware Company, Columbia, by the Hickory Handle Company, Batesburg, S. C.

Not only is the Batesburg company the first to try this method of shipping handles but a South Carolinian, John T. Wigginton of Anderson, Clemson College graduate, now research engineer of the Textile Bag Manufacturers Association with headquarters in Chicago, developed the burlap bag in which the handles were shipped. The bags were large

enough to hold a dozen handles each and strapped at each end with steel. The Consolidated Steel Strap Co., Chicago, assisted in the development of the bag.

### Textile Mills Addition

Lincolnton, N. C.—Plans are being prepared by the Lockwood Greene Engineers, Inc., Charlotte, for a small addition for storage and weaving to the plant here of the Massapoag Mills Corp., formerly the Anderson Mills, Inc. The addition will be 93 by 50 feet, of steel frame mill construction and will be erected by the owners.

### Cottonseed As a Source of Wealth to the South

The total value of the cottonseed products of the South in 1928, according to figures presented in the Blue Book of Southern Progress, published by the MANUFACTURERS RECORD, amounted to \$238,888,000. There were pressed in the Southern States 4,490,648 tons, producing 1,424,221,350 pounds of oil, 2,015,601 tons of cake and meal, 1,275,975 tons of hulls and 844,302 bales of linters. Thus the once despised cottonseed has become the basis of an enormous industry in the South, furnishing oil for innumerable purposes, and cake and meal for feed.

## Start Work on 438 Dwellings for Rayon Plant Operatives

### Present Plans Call for 1000 Dwellings in Village of Rome, Georgia, Enterprise

Rome, Ga.—Construction has started on 438 additional brick dwellings in the mill village here of the American Chatillon Corp., New York, and work will be pushed in order to provide housing for the growing number of workers at the company's big rayon mill. Contract calls for the completion of the houses within the next few months, bringing the total to 571 ready for workers. Present plans contemplate the erection of 1000 dwellings in the village, this number to be increased as the plant expands.

The plant is now producing 1000 pounds daily of the new acetate rayon yarns. By the first of July the produc-

tion is expected to reach 2500 pounds daily and by October the full capacity—7000 pounds daily—will have been reached, it is said. Production of the company's fine filament viscose rayon is expected to begin June 25 and by the end of the year the full production capacity of 12,000 pounds daily will have been reached, it is thought.

James S. Brownson, a well known textile man, will represent the American Chatillon Corp. in New York and adjacent districts in the introduction of Chacelon, the new acetate rayon yarn. A selling office in charge of Joseph R. Morton has been opened in Greensboro, N. C.



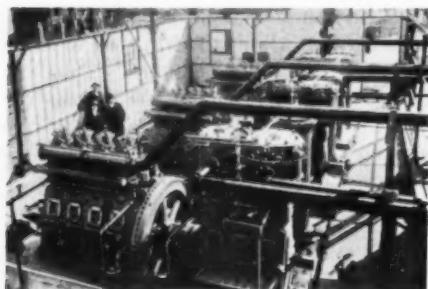
Pepperell Manufacturing Company Will Double Size of This Plant.

Provision for installing an additional 20,000 spindles and 500 looms will be made to this mill at Opelika, Ala., for producing cloth to be finished at Lewiston, Maine.

## NEW AND IMPROVED EQUIPMENT

### Diesel Engines in Subway

The contracting firm of Lyons and Slattery, Inc., in New York district, recently installed three 160 Hp. CP Diesel engines direct connected to CP vertical air compressor, of the Chicago Pneumatic Tool Company, Chicago, Ill., in subway work. A record made avail-



Installation on a Sewer Job

able by other users of CP Diesel engines is said to have shown that the installation of these engines "would effect a saving in power cost, as compared to purchased electric power, sufficient to pay for the entire plant by the time this one job is completed."

This plant has been in operation since January and as there are numerous apartment houses and dwellings nearby it was first feared that the operation would make so much noise as to be very objectionable. Favorable comment is reported because of the quiet operation of this plant, "there being scarcely any noise and practically no smoke."

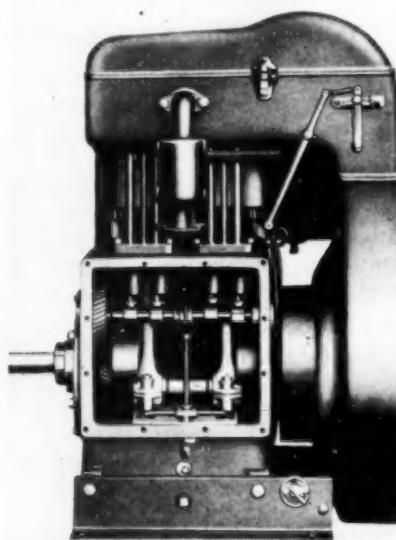
### New-Way Air-Cooled Engine

In 1905, it is said, the first air-cooled engine was developed for industrial and farm use by the New-Way Motor Company, Lansing, Mich. In the New-Way twin-cylinder engine there are no water pipes, radiator fins, or other parts necessary to water-cooling. It is a valve-in-head type with detachable cylinder head. A large inspection plate may be removed, exposing all moving parts. Roller bearings, air-governor, Elesmann special flywheel magneto, Tillotson float feed carburetor and air cleaner, and Lynite connecting rods are standard equipment.

The flywheel is provided with a series of curved blower blades around its periphery, and as it turns it creates a partial vacuum in the wheel housing. The strong suction effect draws air in and down through the cylinder jackets. The air currents pass over and between the flanges at fairly high velocity and, as there is a large amount of exposed sur-

face, the excess heat is promptly disposed of, being absorbed by air passing around the cylinders, which is ejected from the motor compartment by the

endgate is fitted with a special rubber gasket, to prevent leakage, and an 18-inch shoot gate can be put in the endgate at small additional cost.



6 to 10 H.P., Weight 280 Lbs.

action of the blower flywheel. This system, used successfully for many years, is unchanged in essentials at the present day.

### "Bath Tub" Dump Body

Development of the Standard welded "bath tub" type dump body for handling ready mixed concrete is announced by the Standard Steel Works, North Kansas City, Mo., to be mounted on any truck of sufficient capacity and sold with or without Woods-Detroit underbody hoist. The smooth, semi-circular construction of the body and the elimination of all sharp corners are designed to prevent the wet mix from sticking, while the tapering of the body from front to rear is said to prevent choking in discharge.

On the 60-cubic foot body, 10 gauge

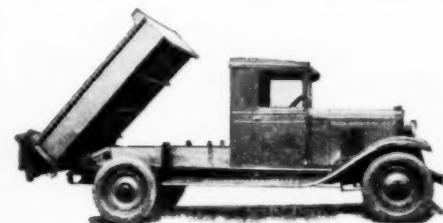


• For Ready Mixed Concrete

stiffener plates are put on the sides of the body, connected to it by a stout channel, to prevent twisting and racking of the body in the dump position. The

### Hughes-Keenan Power Hoist

The Hughes-Keenan Company, Mansfield, Ohio, manufacturer of dump bodies, hoists and a short-haul dirt moving unit, "Iron Mule," announces a 1 to 7½ ton capacity power hoist, made in three sizes. A 1 to 2 ton capacity is mountable on Ford, Chevrolet and other light trucks;



Dump Truck With Hoist

a 3 to 5 ton size is mountable on a variety of 2 to 3 ton truck, and a 5 to 7½ ton capacity for trucks of over 3 tons.

Power is taken direct from engine shaft and transmitted to hoist ram through a train of three gears, arranged to preclude coasting. With engine running at 850 to 1,000 R.P.M. the smallest model dumps a 2-ton load in approximately 15 seconds, and larger model will dump 7½ tons in 25 seconds. A dumping angle of 50 degrees eliminates need of body shaking to clear load, while a spe-



How Power Is Transmitted

cially designed clutch has extra large bearing faces and direct action throughout at up and down positions. Power is applied ahead of center of gravity, and the hoist proper is suspended at three points and automatically equalizes itself regardless of the truck's position when dumping.

# CONSTRUCTION DEPARTMENT

## and

# NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

**Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.**

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

### Airports, Airplane Plants, Etc.

Ala., Birmingham—City establish \$500,000 airport on 300-acre site between Woodlawn and Tarrant City; Southern Air Transport, Inc., Robert J. Smith, Gen. Traffic Mgr., Fort Worth, Tex., plans establishing flying school, service depot and taxi service.

Ark., Camden—Chamber of Commerce approved plans for airport on Butler farm, 3 mi. southwest of city; plan hangar.

Fla., Miami—Dade County Comn. set Oct. 15 for election to establish airport and harbor, special tax district, and set up governing commission as provided by legislature.

La., Baton Rouge—East Baton Rouge Parish Police Jury plans voting Aug. 20 on tax for purchase of site and equipping airport.

Md., Baltimore—C. M. Keys, Pres., Curtiss Aeroplane & Motor Co., Garden City, Long Island, New York, announced purchase of entire capital stock of Pitcairn Aviation, Inc., Land Title Bldg., Philadelphia, Pa., together with flying services at various points in South, not including any of manufacturing interests of Harold F. Pitcairn; Pitcairn Aviation, Inc., operates air mail line, Newark airport to Atlanta, Ga., via Philadelphia, Pa., Baltimore, Washington, D. C., Richmond, Va., and line Atlanta to Miami, Fla., Jacksonville, Fla.

Miss., Clarksdale—Bd. of Supervisors of Coahoma County receive bids until July 1 at office of chancery clerk, Friars Point, Miss., for constructing airplane hanger east of Clarksdale. 6-13

Miss., Clarksdale—Coahoma County Bd. of Supervisors, Y. E. Howell, Clk., Friars Point, receives bids July 1 for airplane hanger east of Clarksdale; Class B, 60x80 ft., curved bowstring roof trusses; erect lean-to shed, 12x20 ft.

Miss., Natchez—City plans \$25,000 bond issue for airport.

Mo., Jefferson City—Jefferson Airways, Inc., capital \$100,000, chartered; A. S. Knapp, Webster Groves; Theodore Oberman, Woodcrest, Jefferson City.

Mo., Clayton—Air Service, Inc., chartered; Carl Setz, Jr., Clayton; Mrs. George M. Downs, 12166 Broad St., Detroit, Mich.

Mo., Kansas City—Air Terminal Corp. establish \$500,000 air terminal at municipal airport, to be operated by city; circular, with ground floor 450 ft. in diameter, with structure 100 ft. in diameter, 75 ft. high in center for offices; conc. slab 100 ft. wide circle building and connect with runways on field; Buckley & Van Brunt, Archt.

Mo., St. Louis—Municipal Airport Comn. voted to lease 13 additional acres of land, northeast corner of airport to Curtiss-Robertson Airplane Mfg. Co., now occupying 8 acres; company plans erecting \$300,000 addition; commission also authorized expenditure of \$12,000 for experiments in constructing runways. 5-16

Okla., Oklahoma City—City postponed date of voting on \$425,000 airport improvement bond issue until July 30 or in August; recently voted to vote June 25. 6-13

Tenn., Chattanooga—City, Office of Commr. of Public Utilities, Ground & Buildings, City Hall, receives bids until June 24 for clearing, grading, draining, sub-soiling, soil treatment, fertilizing and turfing airport

(Lovell Field), near Shepherd Post Office, Tenn.; Benjamin King & Associates, Airport Engrs., 1637 Massachusetts Ave., N. W., Washington, D. C., and Hotel Patten, Chattanooga. 5-30

Tex., Amarillo—Southern Air Transport Co., Tom Harding, V.-Pres. and Gen. Mgr., Fort Worth, secured 20-year lease on municipal airport; to be operated by Texas Air Transport Flying Service, A. P. Barrett, Pres., Fort Worth Bk. Bldg., Fort Worth.

Tex., Edinburg—Chamber of Commerce interested in establishing airport.

Tex., Brownsville—City negotiating with Mexican Aviation Co., W. L. Morrison, V.-Pres., subsidiary of Pan-American Airways, Inc., 122 E. 42nd St., New York, for permanent location of northern terminal; company to lease entire field and operate as municipal airport; expend \$100,000 to \$200,000 for improvements; erect shop building, 120x150 ft.

Tex., Fort Worth—A. P. Barrett, Pres., Southern Air Transportation, Inc., Fort Worth Natl. Bldg., acquired site, W. Seventh and Taylor St.; plans erecting aviation building for headquarters of air corporations with which he is connected. 5-16

Tex., Galveston—Third Attack Group let contract to W. A. Kelso & Co., Inc., 2215½ C St., for hangar, 66x120 ft., steel frame, sheet metal, asphalt floor.

Tex., Houston—Theodor Ahlbom, airport designer and consulting engineer, secured option on 250-acre site, Chocolate Bayou Rd., 5½ mi. from business district; Eastern capitalists, reported, establish Metropolitan Air Terminal, plan expending \$750,000 for improvements; construct all directional runways of macadam, 104x4,000 ft., and other runways 3500 ft. long; erect 8 hangars, 120x125 ft., rein. conc., storm-proof, to accommodate 24 planes, symmetrical design, oval shaped; provide machine shop facilities; erect administration building, 450 ft. long, wing at each end, providing 48-room hotel; light field for night flying; construct 2 swimming pools; begin work in 30 days; Geisecke & Harris, Archt., Second Natl. Bk. Bldg., and Austin.

Tex., Marshall—City considering bond issue for airport.

Va., Charlottesville—Dixie Flying Service, Inc., chartered; E. M. Sturhahn, Pres.; Malcolm G. Robinson, V.-Pres.; establish 145-acre airport on Wilhoit Farm, Garth Rd., 6 mi. northwest of city; construct all-steel hangar, 60x60 ft., and clubhouse; contract let for grading; offices of company, 41 Maiden Lane, New York.

W. Va., Wheeling—W. W. Price, Chmn. Airport Committee, announced completed survey of 2 tracts for municipal airport; Thos. Y. Beckett, City Mgr.

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ala., Selma—See Roads, Streets, Paving.

Ala., Mobile—Mobile County appropriated \$20,000 toward bridge over Three Mile Creek, Telegraph road. 2-28

Ark., Hot Springs—City, Lee P. McLaughlin, Mayor, and Missouri Pacific R. R., R. E. Warden, Engr. of Public Improvements, Little Rock, considering 2 rein. conc. and

steel bridges over Hot Springs creek at Grand Ave.; each 25 ft. wide, including raised sidewalk; 38 ft. long.

Fla., Bartow—See Railways.

Ga., Macon—Bibb County Comms. plan 2 conc. bridges over Echeconnee Creek, on Hawkinsville road; 420-ft. bridge across Houston-Bibb County line; 240-ft. bridge in Bibb County; plan eliminating curves in Hawkinsville road, between Seven Bridges and Houston County line; replace 4 wooden structures; Robert Shi, County Engr.

Ky., Canton—War Dept., Washington, D. C., approved revised plans State Highway Comn., Frankfort, for bridge across Cumberland River, Canton; plans provide for 2 navigation openings against right and left bank, with pier approximately in center of river.

La., Baton Rouge—Maj. R. F. Fowler, Corps of Engineers, will hold public hearing June 29 on application of Louisiana Highway Comn., O. K. Allen, Chmn., Baton Rouge, for fixed span bridge on Baton Rouge-Hammond Highway.

La., Hope Villa—Louisiana Highway Comn., O. K. Allen, Chmn., Baton Rouge, plans reconstructing highway bridge over Bayou Manchac, Hope Villa, Ascension Parish: fixed span with 12-ft. clearance above high water, consisting of 3 steel trusses, each 80 ft. long and trestle at each end; middle truss, over navigable channel, with 65-ft. horizontal clearance, and 12-ft. vertical clearance, above high water of 1922; W. H. Norzauer, State Highway Engr.

Md., Baltimore—City, Bd. of Awards, received low bid from Catalano and Pecora Construction Co., Old Town Natl. Bk. Bldg., Baltimore, \$163,704, for Cold Spring Lane Bridge over Jones Falls and Northern Central R. R. tracks; Nathan L. Smith, Highways Engr. 6-6

Md., Towson—Baltimore County Comms. receive bids for 2 bridges. See Roads, Streets, Paving.

Md., Westminster—State Roads Com., G. Clinton Uhl, Chmn., receives bids July 2 for double span steel and conc. girder span over Pipe Creek, on Westminster to Emmitsburg road, each span 58 ft.; L. H. Steuart, Sec.

Miss., Hollandale—C. M. Murphy, Belzoni, considering 2 highway bridges across Big Sunflower River: At Schlater's Ferry, 6 mi. above Lock and Dam No. 1; at Murphy's Ferry, 6 mi. below Lock and Dam No. 1.

Miss., Vicksburg—See Roads, Streets, Paving.

Miss., Vicksburg—War Dept., Washington, D. C., approved plans, Bd. of Suprvs. of Warren and Hinds Counties, for bridge across Big Black River, 1½ mi. east of Novina, under State law. 5-30

Miss., Vicksburg—Warren County Bd. of Suprvs. plans receiving bids for bridge on South Washington St. over Y. & M. V. R. R. cut, cost about \$75,000; B. F. Nichols, County Highway Engr.

Missouri—State Highway Comn. receives bids for 53 bridges. See Roads, Streets, Paving.

Mo., Clayton—St. Louis County, Walter E. Miller, Clk., received low bid from Felix Kersting Co., \$17,962, for 70-ft. struct. steel span bridge, rein. conc. abutments, over Cold Water Creek, on Old Jamestown road.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

Mo., Springfield—State Highway Dept., T. H. Cutler, Ch. Engr., Jefferson City, making survey for bridge over White River, State Highway No. 43, about 6 mi. from Springfield.

North Carolina—State Highway Comm., receives bids for 3 bridges. See Roads, Streets, Paving.

Okla., Duke—State Highway Dept., John H. Rightmire, Acting State Highway Engr., Oklahoma City, preliminary plans for \$25,000 rein. conc. bridge over Turkey Creek, Jackson County, near Duke.

South Carolina—State Highway Comm., receives bids for 2 bridges. See Roads, Streets, Paving.

S. C., Greenville—City, Alvin H. Dean, Mayor, receiving bids for conc. Reedy River Bridge at Cleveland St.; cost about \$25,000; Dan A. Hulick, City Engr. 4-25

Tex., Austin—Travis County, George Matthews, County Judge, plans improving Congress Ave. Bridge connecting business section of Avenue with proposed paving on South Congress Ave.

Tex., Corsicana—See Roads, Streets, Paving.

Tex., Dalhart—See Roads, Streets, Paving.

Tex.—State Highway Comm., Austin, appropriated funds for proposed relocation underpass across M. H. & T. Ry. near Fratt, on 1.91 mi. Highway No. 2, Bexar County, estimated cost \$81,000; for 24-ft. roadway bridge across Mesquite Creek, Highway No. 74, Burnet County, estimated cost \$7000; G. G. Wickline, Bridge Engr.; Gibb Gilchrist, State Highway Engr.

Tex., Beaumont—Jefferson County, B. B. Johnson, County Judge, may expend about \$1,100,000 for bridge across Neches River. See Financial News Columns.

Virginia—State Highway Comm. received low bid for 2 bridges. See Roads, Streets, Paving.

Va., Luray—Page County Bd. of Supvrs. authorized construction of \$6,000 conc. bridge over Hawksville Creek, Marjsville Dist.

W. Va., Deep Water—Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., requested permit from Interstate Commerce Comm., for bridge over Kanawha River at Deep Water, Fayette County, to connect its lines with New York Central R. R.

West Virginia—War Dept., Washington, D. C., approved plans State of West Virginia to acquire bridge over Kanawha River at or near Cabin Creek, and to acquire the right to construct bridge over same river at St. Albans.

## Contracts Awarded

Alabama—State Highway Comm., Woolsey Finnell, Chmn., Montgomery, let contracts for 8 bridges and culverts, totaling \$150,000: Washington-Choctaw Counties—between Chatom and Butler, J. T. McLemore, Eutaw, \$19,163; Marion County—between Hamilton and Mississippi line, L. C. Britton, Jasper, \$10,351; Barbour County—extension of Martin Creek Bridge, Chapman & Brown, Eufaula; Marshall County—over Salt Creek, C. B. Cox, Clanton; Hale County—bridge and culvert, Greensboro to Moundville, W. O. Farror, Fort Deposit, \$5909; Escambia County—bridge and culvert between Andalusia and Brewton, S. P. Cook, Fairmont, Ga., \$63,307; Mobile and Washington Counties—bridge and culvert, Citronelle to Mississippi line, E. S. and W. C. Lynch, Wetumpka, \$8750; Escambia County—between Brewton and Sardis Church, G. K. Armes, Greenville, \$22,866. 5-16

Fla., Jacksonville—See Miscellaneous Construction.

Louisiana—Louisiana Highway Comm. let contracts for 4 bridges. See Roads, Streets, Bridges.

La., New Orleans—City let contract to J. M. DeFraites, Inc., Canal Bank Bldg., \$9,441, for vehicular bridge over London Ave. Canal, on axis of Benefit St., including approach walls and fills; at \$5,056, for bridge across Canal Blvd. at French St.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, let contracts for 3 bridges: Anne Arundel County—66-ft. triple span steel girder bridge, under tracks of W. B. & A. R. R., on road from Glen Burnie to Dorsey, De Cou & Chidlaw, 837 N. Eutaw St., Baltimore, \$11,115; Howard County—extending 2 bridges over Dorsey Run, on Baltimore-Washington Blvd., Luten Bridge Co., York, Pa., \$9,983. 5-9, 5-16

Md., Hagerstown—Western Maryland R. R. Co., H. R. Pratt, Ch. Engr., Baltimore, let contract to McClintic-Marshall Co., Pittsburgh, Pa., for 235 tons fabricated struct. steel for bridge.

Miss., West Point—Clay County Bd. of Supvrs., Julia H. Johnson, Clk., let contract to Bilt-Rite Steel & Iron Works, Ligonier, Ind., for 70-ft. truss steel bridge, 18-ft. roadway. 5-30

Tennessee—Dept. of Highways and Public Works let contract for 16 bridges. See Roads, Streets, Paving.

Tex., Amarillo—Potter County, Sam B. Motlow, County Judge, let contract to Austin Bridge Co., Dallas and Amarillo, for bridge over Amarillo Creek, 18x60-ft. steel span on conc. piers, steel I-beam approach: J. W. Ryder, County Engr. 5-30

Tex., Liberty—Liberty County, C. R. Wilson, County Judge, let contract to Austin Bridge Co., 1813 Clarence St., Dallas, \$189,000, for steel and conc. bridge over Trinity River, Liberty, shell roadway. 5-16

## Canning and Packing Plants

Tex., LaFeria—Texas Citrus Fruit Growers Exchange, Mission, John H. Shary, Pres., have completed plans and specifications for cannery plant and will call for bids in about 30 days for construction; contract for furnishing packing machine let to Stebler-Parker, Riverside, Calif.; cost \$50,000; company has just secured packing plant at Val Verde; owns plants at San Benito, Mercedes, Donna, LaFeria, Sharyland, and Harlingen; has completed arrangements for additional plants in various communities. 5-16

Tex., McAllen—Bd. of Development of Chamber of Commerce appointed William Reis, T. G. Cook, committee for investigating possibility of obtaining complete equipped citrus packing plant; proposed plant to become unit of Rio Grande Valley Citrus Growers Assn., Mercedes.

## Concrete and Cement Plants

Md., Baltimore—John H. Geils & Co., Inc., John H. Geils, Mgr., First St. and Chesapeake Ave., Brooklyn, (millwork and lumber), acquired former plant of Cast Stone Co., Third and Maryland Ave., Brooklyn.

Md., Baltimore—Quick Laid Block Corp., incorporated; G. Wilson Kellough, Director, 3200 Westwood Ave.; produce concrete building block.

Tex., Corpus Christi—Maj. Pettus Hempill, representative, Portland Cement Association, Athletic Bldg., Dallas, announced hollow concrete building tile plant to be erected here within 90 days; use shell aggregate or mud shell and cement; capacity 3000 tile daily; install equipment costing approx. \$200,000; names of promoters not disclosed.

## Coal Mines and Coke Ovens

W. Va., Eccles—Chicago, Wilmington & Franklin Coal Co., 332 S. Michigan Ave., Chicago, Ill., expending \$1,500,000 enlarging shafts of Mines Nos. 5 and 6, including general underground grading and pit cars; J. S. Vest, 123 Alder St., Bluefield, Contr., for new tipple and cleaning plant; Allen & Garcia, Co., Engrs., 332 S. Michigan Ave., Chicago.

## Cotton Compresses and Gins

Arkansas—Federal Compress & Warehouse Co., Cotton Exch. Bldg., Little Rock, reported, acquired from Anderson-Clayton Compress Co., Cotton Exchange Bldg., Houston, Tex., plants at Fort Smith, Arkadelphia, Russellville and Searcy.

Tex., Abram—Abram Gin Co., capital \$33,000, incorporated; C. E. Strong, J. A. Coleman.

Tex., Houston—Merchants Compress Co., Cotton Exch. Bldg., erecting 1-story, rein. conc. and hollow tile warehouse, Shepherd and Factory Sts., Buffalo Bayou; cost \$32,975; Lamella Trussless Roof Co., Inc., Contrs., Kirby Bldg.

Tex., Houston—J. B. Dannenbaum, has contract for 1 story cotton warehouse on McCarty St., Rd. north of Ship Channel for Atkinson & Co., 824 Perdido St., New Orleans, La.; 304x867 ft.; rein. conc. and brick; Nicholson-Tomme, Inc., has contract for built-up roof. 5-9

Tex., Houston—Gulf Compress Co., Inc., P. O. Box 1789, J. V. Scott, Pres., let contract to Don Hall, Cotton Exch. Bldg., Houston, for cotton warehouse and compress; cost of building, \$20,000, equipment, \$10,000; install cable conveyor; R. J. Cummins, Bankers Mortgage Bldg., Houston, Archt. and Constr. Engr. 6-13

Tex., Memphis—Farmers Co-Operative Co. construct \$15,000 cotton gin.

Tex., Mobeetie—E. Watson Gin Co., capital \$45,000, incorporated; Ed. Watson, E. B. Tinsley.

Tex., Paris—Paris Compress Co., reported construct \$40,000 compress.

Tex., Rosenberg—Orchard Gin Co. increased capital to \$20,000.

Tex., Shamrock—Lela Gin Co., capital \$24,000, incorporated; E. H. Kromer, Edwin T. Griffin.

## Cottonseed-Oil Mills

N. C., Windsor—Mardre Milling and Grinding Co., capital \$25,000, incorporated; Geo. L. Mardre, Jr.; Vance L. Roberson, Roberonville.

Okla., Sayre—Beckham County Co-Operative Cottonseed Oil Mill Assn., reported, construct \$80,000 oil mill.

## Drainage, Dredging and Irrigation

Fla., Jacksonville—See Miscellaneous Construction.

Md., Cumberland—City Council receives bids June 24 for clearing and dredging Potomac River between C. & O. Canal dam and lower end of Smith's Island, raising canal tow path from feed locks at head of canal to stop gate opposite N. & G. Taylor Co. plant and improvements to canal structures along tow path.

Tex., Mercedes—Cameron and Hidalgo Counties Irrigation Dist. No. 9, reported, will acquire irrigation system of American Land & Immigration Co., involving approx. \$1,729,000.

## Electric Light and Power

**Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.**

Florida—J. N. McDonald, 714 First Bank & Trust Co., Sarasota, applied to Federal Power Comm., Washington, for preliminary permit for power development on Oklawaha River, in Marion and Putnam Counties; dam 35 ft. high, 5500 ft. long, power house, navigation lock in river about 2 miles from Orange Springs; installed capacity 16,000 h. p.

Ky., Henderson—City let contract to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., for turbine generator, cost \$44,035; to Elliott Co., Jeannerette, Pa., at \$13,763 for condenser.

Miss., West Point—City rejected offer of Mississippi Power Co., Gulfport, for light and water plant.

Mo., Monroe City—Fairbanks, Morse & Co., Chicago, Ill., and St. Louis, reported, have contract at \$27,122 for improvements to light plant.

Mo., Nevada—City votes July 2 on installation white way system.

Mo., St. Louis—Union Electric Light & Power Co., 12th & Locust Sts., applied to Missouri Public Service Comm., Jefferson City, for permission to acquire all of common stock of Mississippi River Power Co., and of Central Mississippi Valley Electric Properties, both 312 N. 12th Blvd., St. Louis.

N. C., Colerain—Brinkley-Brown Power Co., capital \$100,000, incorporated; Charles and Lee Brinkley; operate power line.

N. C., Conover—Town plans installation of white way system.

N. C., Sanford—Carolina Power and Light Co., Raleigh, reported, construct line from Sanford to Carthage; right of way being surveyed.

Okl., Ames—City plans installing electric way service.

Okl., Salisaw—City plans installing white way system.

Tennessee—Tennessee Railroad and Public Utilities Comm., Nashville, reported, may shortly grant a permit for power development on Holston and Watauga Rivers to Holston River Power Co., 52 Wall St., New York; company, reported, having agreement with American Cyanamid Co., 535 Fifth Ave., New York, for absorbing entire production of 3 hydro dams to be erected between Johnson City and Kingsport; also understood that steam plant of huge capacity will be

built in addition to the hydro plants; American Cyanamid Co., reported, to expend \$3,500,000 for constructing plant between Johnson City and Kingsport.

1-14

**Tex.**, Avoca — West Texas Utilities Co., Abilene, surveying for 13,000 volt high line to serve farming communities, 16 miles.

**Tex.**, Celina — City considering installation of street lights.

**Tex.**, Goose Creek — City considering plans for power plant.

**Tex.**, Georgetown — D. E. Davis has contract for addition to water and light department building; cost \$60,000.

**Tex.**, Harlingen — Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, install additional white way lights.

**Tex.**, Houston — Houston Lighting and Power Co., erect substation at Tomball and Raccoon Bend.

**Tex.**, Victoria — L. E. Myers Co., American Exch. Bk. Bldg., Dallas, is constructing an extension of Central Power and Light Co.'s transmission line, Bloomington to Seadrift; later build extension from Long Mott to Tivoli and Austwell.

**Virginia** — Republic Service Corp., Coatesville, Pa., owners and operators of public utilities advise in addition to building line to supply electric service to President Hoover's fishing lodge, which was completed by Madison Power Co., Madison, have arranged to begin work immediately to build a tie line to connect Madison Power Co. system to that of Page Power Co., Luray, system; 10 miles long, through Madison to point in Rappahannock County; install substation and switchboard equipment.

#### Fertilizer Plants

**Md.**, Baltimore — Davison Chemical Co., Garrett Bldg., acquired Central Chemical Co., Hagerstown, owning several fertilizer plants, estimated to produce annually 125,000 tons of fertilizer and the Lancaster Bone Fertilizer Co., Lancaster, Pa., estimated to produce 15,000 tons yearly; The Davison Company recently purchased Berkshire Chemical Co., Bridgeport, Conn., producing 10,000 tons annually; company now has plants from Connecticut to Texas.

**N. C.**, Roxboro — C. H. Hunter, Sec., Chamber of Commerce, reported, closed deal with outside capitalists for fertilizer plant; cost \$40,000; capacity 500 tons.

#### Flour, Feed and Meal Mills

**Fla.**, Clewiston — W. S. Harvel Co., Inc., install feed and grist mill in building of W. S. Harvel Seed Co., on Ventura St.

**N. C.**, Kernersville — James J. and T. C. Mook, acquired entire ownership of Kernersville Roller Mills; may improve.

**Okl.**, Capitol Hill, Oklahoma City — Mercer, reported, of Eddie Mills Co., 2100 W. Ash Ave., and Belt Mill Co., 2100 S. Robinson St., into Superior Feed Mills Co.; plan \$50,000 improvements.

**Tex.**, Lubbock — Ideal Milling Co., incorporated; W. K. Dickinson, Sr., W. Fort.

**Tex.**, Marshall — Joe M. Pressler, Marshall, constructing \$100,000 feed elevator for Matshall Mill and Elevator Co.

3-28

**Va.**, Brookneal — J. H. Berry, Riverton, plans remodeling building on Main St., for flour mill.

#### Foundry and Machine Plants

**Md.**, Baltimore — Coast Guard, Darby Bldg., Washington, D. C., drawing plans for \$25,000 machine shop, Coast Guard Station; 1-story, hollow tile; P. J. Latham, Archt., 1410 Pennsylvania Ave., N. W., Washington, D. C.

**Mo.**, Kansas City — Sheffield Steel Corp. planning addition to plant to manufacture cold punched nuts.

#### Gas and Oil Enterprises

**Ala.**, Birmingham — Birmingham Gas Co., reported, acquired all equipment, plant and franchise of Industrial Gas Corp., subsidiary of Alabama By-Products Co.; Birmingham Gas Co. was recently formed as result of consignment of all gas properties of Birmingham Electric Co. to Commonwealth Corp.

3-21

**Ala.**, Mobile — Standard Oil Co. of Kentucky, Louisville, Ky., which controls Standard Oil Co. of Alabama, reported, construct large storage distributing plant on water front site; will serve Alabama, Georgia, Florida and Mississippi.

**Ala.**, Montgomery — Marathon Oil Co., incorporated; H. C. James, 810 S. Court St.

**Ark.**, Fort Smith — Quality Oil Co., incorporated; S. Birnie Harper, 108 May St.

**Ark.**, West Helena — Cherokee Public Service Corp., Muskogee, Okla., applied for gas franchise.

**Ala.**, Bessemer — Birmingham Gas Co., Birmingham, acquired franchise for furnishing gas.

**Fla.**, Clearwater — Stacey Brothers Gas Construction Co., 5535 Carthage Pike, Elmwood, Cincinnati, O., installing tank at Clearwater gas plant; 80,000 cu. ft. capacity.

**Fla.**, Coral Gables, Miami — City votes July 23 on ratification of gas franchise to Miami Beach Gas Co., C. P. Holzdeber, care of Century Trust Co., Baltimore, Md.

**D. C.**, Washington — Dane A. Pearson, New York, % C. H. Pope, V. P., Munsey Trust Co., Washington, acquired control of Washington Gas Light Co.

**Ky.**, Jackson — Tri-Union Oil & Gas Co., capital \$25,000, incorporated; C. E. Harris, H. H. Spencer.

**Ky.**, Louisville — Associated Oil Products Corp., capital \$110,000, incorporated; E. Russell Potts, 1200 Everett St.

**Ky.**, Owensboro — Connor & Son Construction Co., Security Bldg., Kansas City, Mo., soon begin construction of high pressure line from gas plant to Fifth and Poplar Sts. for Owensboro Gas Co.; replace line on Griffith Ave., W., with larger main.

**Ky.**, Owingsville — State Valley Oil and Gas Co., incorporated; Glenn E. Percy, Dr. E. H. Haggard.

**Miss.**, Starkville — City granted right of way through Oktibbeha to Southern Natural Gas Corp., First National Bank Bldg., Birmingham, Ala.

**N. C.**, Wilmington — Gulf Refining Co., erect \$30,000 retail supply station Third and Chestnut St.

**Oklahoma** — J. E. Crosbie, Central Natl. Bk. Bldg., Tulsa, reported, construct \$75,000 refinery in Cary Pool, Okfuskee County; capacity 10,000 gals.

**Tenn.**, Greeneville — Lost Mountain Oil Co., incorporated; J. A. White, W. G. Carter.

**Texas** — Atlantic Pipe Line Co., 260 S. Broad St., Philadelphia, Pa., acquired from Independent Oil & Gas Co. about 17 miles of 8-in. welded line extending from Hendricks Pool in Winkler County, W. Texas, to point just east of Pyote, together with pump house and several oil field dwellings; line being equipped with telephone systems and five 55,000 bbl. steel shell, wood roofed tanks; no improvements to facilities contemplated.

6-13

**Tenn.**, Knoxville — Cherokee Oil Co., Inc., 818 Van St., C. S. Reeder, Pres., State St., will erect warehouse and gas storage plant; 40x70 ft.; frame construction with office attached; 2 storage tanks capacity 20,000 gal. each; pumping plant, remove two 20,000 gal. tanks; A. K. Stewart, Contr.

6-13

**Texas** — Lone Star Natural Gas Co., 1915 Wood St., Dallas, reported, extend gas mains to 9 towns in Hood, Bosque and Falls Counties, including Hamilton, Granbury, Glen Rose, Meridian, Whitney, Lott, Rosebud, Morgan and Clinton.

**Tex.**, Abilene — Emerald Oil Co., incorporated; H. L. Griswold, J. P. Calmers.

**Tex.**, Amarillo — U. S. Dept. of Commerce, Bureau of Mines, P. O. Box 2025, F. A. Vestal, Engr., in charge, advises second unit to be installed at helium plant will include only small amount of machinery, equipment will be fabricated in own shops, no contracts for work will be let.

**Tex.**, Austin — Nordon Oil Corp., incorporated; Q. C. Taylor, Austin Natl. Bk. Bldg.

**Tex.**, Borger — United Carbon Co., Union Bldg., Charleston, W. Va., has ordered material and will construct units five and six of carbon black plant; first three units completed and fourth unit now being completed; all work done by company forces and purchases made direct from manufacturers by company purchasing dept.

**Tex.**, Dallas — Comet Oil and Gas Co., capital \$25,000, incorporated; J. P. Miller, Wilson Bldg.

**Tex.**, Dallas — United Gas Co., Niels Esperon Bldg., Houston, reported, signed contract with Smith Bros. Construction Co., Santa Fe Bldg., to lay 12½ in. pipe line from Jennings gas field in Zapata county to Monterey, Mexico, 125 miles; pipe ordered from Youngstown Sheet & Tube Co., Youngstown, O.; line will cross Rio Grande at Rome, Tex.; right of way secure for entire line; will operate in Mexico as Cia Mexicana De Gas S. A.

**Tex.**, Houston — Gulf Properties Co., capital \$200,000, incorporated; R. L. Gaden, 3721 Broadway.

**Tex.**, Iraan — J. L. Goggans, 1819 Bennett St., Dallas, attorney for company considering building casinghead gasoline plant.

**Tex.**, Lefors — Western Carbon Co., 7 W. Tenth St., Wilmington, Del., proposes to erect carbon plant near town in Gray County; consume 40,000,000 cu. ft.

5-16

**Tex.**, Lockhart — Mofal Oil and Gas Co. incorporated; Melvin E. Moffett, G. J. Beuner.

**Va.**, Dublin — City granted gas franchise to Atlantic Gas Co., Bullitt Bldg., Philadelphia, Pa.

5-9

**Va.**, Pulaski — Atlantic Gas Co., Bullitt Bldg., Philadelphia, Pa., has gas franchise; work on plant to begin in 3 months, to supply Pulaski, Dublin and Radford; will organize subsidiary company, Virginia Gas Co.

**W. Va.**, Huntington — Citizens Oil Co., incorporated; W. J. Wolfe, 840½ Fourth Ave.

**W. Va.**, Princeton — Bluefield Gas & Power Co., Bluefield applied for franchise for laying pipes in and under streets in city for supplying natural or artificial gas.

#### Ice and Cold-Storage Plants

**Fla.**, Daytona Beach — See Miscellaneous Enterprises.

**Tex.**, Hebronville — Hebronville Ice & Cold Storage Co., incorporated; G. C. Parker, C. C. Daniels.

**Tex.**, San Antonio — Scobey Fireproof Storage Co., 315 N. Medina St., immediately erect \$500,000 cold-storage plant; 7-story, rein. conc., 150,000 sq. ft. storage space, equip with electric elevators and modern handling devices.

**Tex.**, Weatherford — Round Ice Co., incorporated; A. M. Lee, J. W. Rodgers.

#### Iron and Steel Plants

**Okl.**, Oklahoma City — Capitol Steel & way, immediately erect \$250,000 plant, Agnew Ave. and Frisco Right-of-Way; to have steam and electrical switching facilities; Sherman Machine & Iron Works, 18 E. Main St., has contract for sewer and water connections.

#### Land Development

**Ala.**, Opelika — Pepperell Mfg. Co. retained E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C., to plan village extension, park developments, etc., in connection with mill expansion; F. P. Sheldon & Son, Providence, R. I., Engrs. See Textile Mills.

**Fla.**, Coral Gables — Catalona Corp., incorporated; P. D. McGarry, Huntington Bldg.

**Fla.**, Orlando — Oak Hill Memorial Assn., developing Oak Hill Memorial Park cemetery; build ornamental entrance; Thomas E. Agee, Pres. Park Sales Corp., in charge.

**Fla.**, Tampa — Logan Bros., Brush & Washington St., acquired 90 acres on Florida Ave. and Linebaugh St.

**Ga.**, Savannah — Coastal Islands Co., capital \$200,000, incorporated; Howard E. Coffin, First Natl. Bk. Bldg., Detroit, Mich., and Henry N. Torrey.

**Ga.**, Atlanta — Montpelier Savings Bank & Trust Co., Montpelier, Vt., reported, acquired Garden Hills, subdivision and tract of downtown property; F. P. Lowe, Local Rep.

**Ky.**, Frankfort — Frankfort Golf Club, incorporated; Eugene E. Hoge, George L. Payne.

**La.**, Baton Rouge — Zeta Land Co., Inc., chartered; Louis F. Hart, 831 North St.

**La.**, Lake Charles — J. H. McMahon & Co., Inc., improving Lake Shore subdivision; install streets, sidewalks, extend sewers, gas and water.

**La.**, New Orleans — McGiehan Realty Co., Inc., chartered; T. H. McGiehan, 531 Hiberville Bldg.

**La.**, New Orleans — Reliance Realty & Development Co., incorporated; Wm. R. Dodge, 710 N. O. Bank Bldg.

**Md.**, Baltimore — Killian Co., 709 S. Eden St., incorporated; John A. Killian, Samuel K. Smith.

**Md.**, Baltimore — Richwood Development Co., 5505 Glenoak Ave., incorporated; John Chester, 625 Washington Blvd.; John Kabis.

**Md.**, Baltimore — Roland Park Co., 20 E. Lexington St., and associates plan conversion of old estate in Hillen Rd. area north of 33rd St., adjoining city's developments around Lake Montebello, 526 acres, into subdivisions; will organize company with capital of \$2,000,000; will develop on lines similar to Roland Park; financing of company will be through Robert Garrett & Sons, Garrett Bldg.

Md., Curtis Bay, Baltimore—Park Bd. plans development children's playground on Pennington Ave., from Filbert St. to Curtis Ave.

Mo., Cape Girardeau—Marquette Eastern Finance Corp., 626 Pine St., St. Louis, acquired 8665 acres land in New Madrid County; develop for colonization.

Mo., Naylor—Ripley-Butler Development Co., capital \$100,000, incorporated; W. E. Davis, A. M. Hughes.

Mo., St. Louis—Cater Realty Co., Inc., W. C. Philbrook, Pres., 7507 Warwick Drive, developing Pasadena Hills subdivision; install gas mains, electric lights; pave, etc.

Mo., St. Louis—Gilbert & Stein Real Estate Co., incorporated; Meyer Blocher, St. Louis, Title Guarantee Bldg.

N. C., Asheville—Independent Holding Co., capital \$100,000, incorporated; Wm. B. Troy, 20 Government St.

N. C., Roanoke Rapids—Rosemary Mfg. Co. retained E. S. Draper, Landscape Archt. and Engr., Charlotte, to plan village extension and development.

N. C., Rocky Mount—W. S. Swain & Co., Inc., capital \$50,000, chartered; W. S. Swain, 120 N. Main St.

S. C., Columbia—Columbia Properties, Inc., chartered; Harold Eubanks, 115 S. Pickens St.

Tenn., Chattanooga—C. T. Chamberlain, Engr., prepared plans for 9 additional holes at Brainerd municipal golf course.

Tenn., Chattanooga—Rivermont Development Co., Carter Lupton, developing subdivision on Hixson Pike; City Water Co., extend water mains to subdivision, also to subdivision of Chattanooga Estates Co., and Dallas Heights Co.

Texas—J. E. White, Del Rio, acquired 60,000 acres in Val Verde, Maverick and Kinney counties, containing 5000 acres of irrigated land.

Tex., Amarillo—D. and B. Holding Co. incorporated; G. C. Bruce, W. S. Birge.

Tex., Beaumont—J. Cooke Wilson, American Natl. Bk. Bldg., and I. R. Bordages construct subdivision on Colliers' Ferry Rd. and Magnolia Ave.; 220 acres.

Tex., Colorado—City probably develop 22 acre park on Lone Wolf Creek.

Tex., El Paso—Phillips Realty and Building Co., capital \$15,000, incorporated; John W. Philipe, First Natl. Bk. Bldg.

Tex., El Paso—J. D. McGregor & Sons, Inc., Mills Bldg., capital \$250,000, incorporated; Malcolm and J. D. McGregor, Jr.

Tex., Galveston—Taeguard Land Co., incorporated; Walter W. Van, Clemente M. Nave.

Tex., Goose Creek—See Water Works.

Tex., Grand Prairie—City votes soon on \$20,000 parks bonds.

Tex., Houston—City, Walter E. Monteith, Mayor, may develop Peggy Point Park.

Tex., Houston—Town Council, West University Place, plans improvements to Colonial Terrace section; storm sewers and sanitary sewers will be completed on University Blvd. and Cameron Blvd.

Tex., Pearsall—Ralph Harris, San Angelo, acquired 11,000 acre ranch in Frio County.

Tex., Port Arthur—City, J. W. O'Neal, Mayor, plans development of 12 acre park.

Va., Alexandria—Boulevard Land Co., capital \$100,000, incorporated; Gardner Booth, 2nd.

Va., Chester—Sunset Memorial Park Corp., J. D. Woodroe, Secy., has 141 acres, developing 15 acres for cemetery; engineering work started; will build metal fences; permanent roads, grading, horticultural works, lodge and building for machinery, etc.; expend \$75,000; L. E. Potest, Archt.; J. W. Pugh, Constr. Engr., Law Bldg., Petersburg.

Va., Winchester—H. Russell Potts interested in development 100 acres for park.

### Lumber Enterprises

Ala., Heflin—Fackler Lumber Co., C. A. Wright, Mgr., moving machinery here from Loachapoka; establish large planing and sawmill  $\frac{1}{2}$  mi. west of city; 50,000 ft. daily capacity; Southern Ry. built spur to site.

Fla., Inverness—Wilkes & Rawls, Holder, acquired timber tract of Cove Co., near Wildwood Rd., near here, move mill here; employ approx. 100.

Fla., Slater—Dowling-Camp Lumber Co., acquired J. W. McWilliams Co.'s sawmill, equipment and timber.

Ga., Valdosta—Leaf Lumber & Veneer Works, Avant, Miss., acquired sawmill of Southern Sawmill Co., and 40,000,000 to 50,000,000 ft. pine and cypress timber; S. B. Algee to be manager.

Miss., Hazlehurst—G. M. Lomax Lumber Co., Ruston, La., acquired 12,000,000 to 51,000,000 ft. pine and hardwood timber, 15 mi. west of city; erect large mill here; later acquire additional tracts; employ 100.

N. C., Farmville—Farmville Lumber Co., capital \$100,000, incorporated; G. S. Vought, Spring Hope; H. R. Butler, Suffolk, Va.

### Mining

Ky., Cloverport—Edward Gregory, Publicity Dept., Cloverport Commercial Club advises Chamber of Commerce interested in establishing plant for developing lime rock; local capital interested. See Want Section—Machinery and Supplies.

S. C., Pickens—J. H. Patten plans developing of amphibole asbestos. See Want Section Machinery and Supplies.

### Miscellaneous Construction

Ala., Birmingham—Southern Ry. Co., G. L. Sitton, Ch. Engr., Charlotte, N. C., let contract to Walter T. Weaver, 508 McMillan Ave., Charlotte, for constructing retaining wall along tracks at about \$100,000. 3-21

Arkansas—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., enlarge levees in piece No. 10. Lower St. Frances Levee Dist., near Bartfield, by government forces; includes moving 365,000 cu. yd. 5-9

Fla., Jacksonville—City let contract to Robert G. Lassiter & Co., Barnett Bldg., Jacksonville and Oxford, N. C., at \$399,553.10, for Hogans Creek project, including bulkheading, changing channel-excavation, spillway, automatic tide gates, pumping plant, storm drains, bridges, fence and dredging; let contract to Burford, Hall & Smith, Atlanta, Ga., for 2 10,000-g. p. m. pumps; Charles V. Imeson, Engr., Clark Bldg.; H. J. Klutho, Archt., St. James Bldg. 5-2

Fla., Miami—See Airports, Airplane Plants, etc.

Fla., Miami Beach—A. D. Lasker, 4975 Collins Ave., let contract to John B. Orr, 147 N. E. Sixth St., for wall, swimming pool, patio, latticed greenhouse, dressing rooms, etc.

Fla., Stuart—Pelican Hotel, D. W. King, Mgr., construct dock, 425 ft. long; Curd Schroeder, City Mgr., interested in city sharing expense and using dock for city purposes.

Fla., St. Augustine—City, C. O. Johnson, Auditor and Clk., advises not contemplating bond issue for pier. 6-13

Ga., Tybee—City arranged for repairs to bulkheads; construct heavy bulkhead at 16th St.; plan constructing board walk to connect Tybee hotel pavilion crossing 15th St.

Louisiana—U. S. Engr. Office, Ft. of Prytania St., New Orleans, receives bids July 10 for following levee work, designated by name, location, kind of work, estimated net yardage: Continuing contract work—Lower Tensas Levee Dist.—Bedford-Bayou Vidal, 610-623 R. Madison Parish, new levee, approx. 25 ft. high, 3,422,000; White Oak Lake, 643-645 R, Tensas Parish, new levee, approx. 21 ft. high, 2,100,000; Atchafalaya (Front) Levee Dist.—Upper New Texas, 746 R, Pointe Coupe Parish, new levee, approx. 28 ft., 1,050,000; Upper Morganza, 788 R, Pointe Coupe and West Baton Rouge Parishes, approx. 24 ft. high, 1,260,000; Lafourche Levee Dist.—Donaldsonville-St. James, 891-908 R, Ascension and St. James Parishes, new levee and enlargement, 1,900,000; Pontchartrain Levee Dist.—Baton Rouge-Gay, 833-44 L, East Baton Rouge Parish, new levee and enlargement, 3,050,000; Indian Camp-Southwood Bend, new levee with gap, 2,130,000; straight contract work—Lower Tensas Levee Dist.—Forest Home, 714 R, Concordia Parish, new levee with gap between, 190,000; Atchafalaya (Front) Levee Dist.—Viola, 829 R, West Baton Rouge Parish, new levee and enlargement, 352,000; Bayou Goula, 867 R, 867 R, Iberville Parish, new levee, approx. 21 ft. high, 750,000; Lafourche Levee Dist.—Goldmine-Lucy, 928 R, St. John Parish, new levee, approx. 18 ft. high, 310,000; Pontchartrain Levee Dist.—Belle Hellenne, 879 L, St. James Parish, new levee, approx. 16 ft. high, 370,000; St. Elmo-Angelina, 918-19 L, St. John Parishes, new levee and enlargement, 1,300,000. 5-2

La., New Orleans—U. S. Engr. Office, Ft. of Prytania St., receives bids until July 8 for constructing Bonnet Carré Spillway structure, including approx. 400,000 cu. yd. excavation, 135,000 cu. yd. conc., 750,000 lin. ft. piling, 128,000 tons rip-rap, 70,000 tons gravel or spalls, 600,000 sq. ft. steel sheet piling, struc. and rein. steel. 6-6

La., New Orleans—U. S. Engr. Office, Ft. of Prytania St., let contract to Boone & Webster, Cedar Key, Fla., for following levee work on Bonnet Carré Spillway: Section 1, dry land work, 560,000 cu. yd., at 31 cents; Section 2, dry land work, 400,000 cu. yd., at 29 cents. 6-6

La., St. Bernard—Police Jury of St. Bernard Parish receives bids July 2 for constructing creosoted timber dam across Bayou Terre-aux-Boeufs, near Bayou La Loutre; excavating and removing approx. 6000 cu. yd. earth from Bayou Terre-aux-Boeufs, etc.; A. Merrick, Blamphion, Consit. Engr., Audubon Bldg., New Orleans.

Md., Baltimore—Hans Schuler, Director of Maryland Institute, will make sketches for memorial to Johns Hopkins, Charles St., opposite entrance to Johns Hopkins University; funds to be raised by subscription.

Md., Cumberland—City Council receives bids June 24 for extending present C. & O. Canal Dam by furnishing and constructing series of steel flood gates, concrete abutment, piers and retaining walls, gate hoists, operating bridge and necessary excavation.

Miss., Greenville—City considering bond issue for \$200,000 levee to encircle city.

Miss., Gulfport—Hotel Markham, A. J. Negrotto, Mgr., let contract to J. W. Billingsby, Interstate Bk. Bldg., New Orleans, La., for swimming pool, 35 x 90 ft., with dressing room, showers, and well to supply water for pool and hotel; cost \$25,000; started construction. 6-6

Missouri—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., let contract to William W. Roth, Hickman, Ky., for piece No. 5, New Madrid Sikeston (St. John's Bayou) Levee, 930,000 cu. yd., at 20 cents; piece No. 9, Lower St. Frances Levee Dist., near Gayoso, 1,200,000 cu. yd. enlargement and levee, by government plant. 6-13

Missouri—U. S. Engr. Office, Kansas City, let contract to Woods Bros. Construction Co., Lincoln, Neb., for 2100 ft. standard revetment along right bank Missouri River in Stanley Bend. 4-11

Mo., Kansas City—Marshall Hall Grain Co., W. T. Brooking, Pres., Merchants' Exch. Bldg., St. Louis, acquired control of Hall-Baker Grain Co., 1016 Bd. of Trade Bldg.

Mo., Kansas City—U. S. Engr. Office receives bids July 8 for constructing about 7550 lin. ft. standard pile clump dikes or alternately 7550 lin. ft. current retards, Missouri River, Elwood Bend. 6-6

Mo., Kansas City—Ch. of Engrs., U. S. Army, Washington, D. C., authorized constructing 20,350 ft. standard revetment, Bean Lake Bend; soon call for bids.

Mo., St. Louis—Public Welfare Committee of Bd. of Aldermen approved proposed ordinance for erecting \$125,000 bath house and swimming pool, Ewing and Hickory St.

Okla., McAlester—City plans rebuilding No. 1 and 2 city lake dams; may vote on \$100,000 bonds.

Tenn., Memphis—U. S. Engr. Office, McCall Bldg., let following contracts for earthwork Mound City, Ill., and Reelfoot and Lower St. Francis Levee Dist.: Mound City Front, Ohio River—Ward-Hayes Construction Co., Cleveland, Ohio, 206,000 cu. yd. enlargement and 5000 cu. yd. removal rock pavement, at approx. \$102,000; Reelfoot Levee Dist.—Missouri Engineering & Contracting Co., Merch. Lac. Bldg., St. Louis, Mo., piece No. 6, 150,000 cu. yd. enlargement and new levee at 28.4 and 33 cents; Sweet Price Dredge Corp., Memphis, 2,115,000 cu. yd. enlargement, at 28.4 cents on pieces SA, B, C, and D, 33 cents on SE. 6-13

Tex., Dalhart—Dalhart Grain Co. let contract to Floyd Mathews for warehouse and to Robert Construction Co., Babetha, Kan., for elevator; cost over \$25,000.

Tex., Galveston—Continental Grain Co., New York and Chicago, Ill., leased Sunset elevators, owned by Southern Pacific Co., P. Shoup, Pres., San Francisco, Calif.

Tex., Port Arthur—City, J. W. O'Neal, Mayor, reported, announced \$3,000,000 bond issue to be voted within 3 months; includes 4-mi. seawall, \$1,500,000; filling in Thomas Blvd. ditch, \$250,000; probably constructing pleasure pier bridge, etc. 3-21

Va., Norfolk—Norfolk & Western Ry. Co., A. C. Needles, Pres., Roanoke, authorized by Interstate Commerce Comm. to acquire and operate terminal properties owned by City of Norfolk, Sewalls Point.

### Miscellaneous Enterprises

Ark., Conway—Faulkner Dairy Co. erect \$40,000 station.

Ark., Fayetteville—Ozark Milk Products Co., H. E. Dvratcek, plans installing powdered milk equipment.

Ark., Little Rock—National Film Co., G. J. Stumpff, Pres., Hollywood, Calif., reported completing plans for \$500,000 motion picture studio in or near Little Rock, in connection with colonization project, being sponsored by Knights of Utopia, A. J. Patterson, 815 W. 9th Street, which contemplates establishing college, textile mill, cottonseed oil mill, refinery stone plant, possibly soap plant and radio cabinet plant; establish offices, Little Rock.

D. C., Washington—General Baking Co., 420 Lexington St., New York, let contract to Chas. L. Stockhausen Co., Gay and Water Sts., Baltimore, Md., for \$200,000 bakery; 161x237 ft., 2, 3 and 4 story, brick, reinforced concrete, wood, steel sash, slag roof, granite trim; following have sub-contracts: Brick work, W. J. Hammatt Co., Old Town Natl. Bk. Bldg.; cut granite, David McAndrew Co., Sisson and 26th Sts.; C. B. Comstock, Archt., 110 W. 40th St., New York; W. Steele & Sons Co., Engr., 124 N. 15th St., Philadelphia, Pa. 12-20

D. C., Washington—W. F. Roberts Co., Inc., let contract to Charles H. Tompkins Co. for \$75,000 printing plant, alley bet. 13th and 14th Sts., Massachusetts Ave. and L St., N. W.; 4-story, stone, conc.

Fla., Apalachicola—Morrison Turpentine Co., Inc., chartered; Angus Morrison.

Fla., Daytona Beach—Conrad Leader, St. Louis, Mo., erect packing plant and abattoir during summer; erect cold-storage warehouse and rendering plant to manufacture fertilizer; cost \$40,000.

Fla., Inverness—Vego Hair Mfg. Co., Gainesville, plans establishing moss buying station.

Fla., Miami—Lloyd Printing, Inc., chartered; F. R. Lloyd, 605 N. Miami Ave.

Fla., Tampa—Tampa Celo Bottling Co. acquired building formerly occupied by Allen's Bakery, Polk and Pierce Sts.; 40,000 sq. ft. floor space; plans expansion of operations.

Fla., West Palm Beach—Contracting—T. F. Dempsey, Inc., chartered; Margaret Dempsey, 1118 S. Olive St.

Ga., Atlanta—B. F. Goodrich Co., H. E. Cook, Ass't. Gen. Supt., Engr. Div., Akron, Ohio, advises regarding tire plant to be erected here: "Process engineering being done by own crew at Akron and no contracts let with exception of property surveys and topographical maps which McDonald & Co., Atlanta, working on." 3-28

Ga., Savannah—Certain-feed Products Corp., 100 E. 42nd St., New York, advises regarding roofing plant, engineers and name of subsidiary to operate not yet decided; initial plant capacity about 1,500,000 squares yearly; work beginning in about 30 days; plans completion by Jan. 1, 1930. 6-13

Ky., Georgetown—Georgetown News Publishing Co., capital \$15,000, incorporated; W. Charles Webber, Elmer B. Allen.

Ky., Hopkinsville—Hopkinsville Clothing Mfg. Co., capital \$50,000, incorporated; W. T. Killebrew, Mrs. Alma B. Paxton.

Ky., Lexington—Central Kentucky Dry Goods Co., Inc., L. J. Ballard, Pres., 337 W. Short St., wholesalers, reported, plans acquiring 15 retail dry good stores.

Ky., Louisville—Retail Dry Cleaners incorporated; J. William Eckard, 2235 Talbot Ave.

Ky., Louisville—Joseph Douglas Weiss, 119 W. 57th St., New York, Archt., advises regarding proposed plant for American Cigar Co., 317 Roland St., subsidiary of American Tobacco Co., C. A. Penn, V.-Pres., 111 Fifth Ave., New York: "Plans in progress for new 5-story and basement, fire-proof, reinforced concrete sprinklered building of cost modern type; new building, 80x150 ft.; existing buildings to be altered extensively; ready for bids approx. Aug. 1; plant to take care of additional business." 6-13

Ky., Louisville—Reynolds Metals Co., C. K. Reynolds, New York, subsidiary of United States Foil Co., 2934 Grand Ave., reported, completed plans for 12-acre plant, Bell's Lanes, to manufacture aluminum powder for paint and zinc roofing; also manufacture aluminum, tin and lead foil; establish \$60,000 plant, Hale Ave. to produce color-foil, conc. 3-story.

La., Monroe—Robert Ewing, Pres. and Publisher, New Orleans States and Shreveport Times, 900 Camp St., New Orleans, and Shreveport, announced establish Monroe Morning World, morning newspaper; purchase modern equipment.

La., New Orleans—Meyer Eiseman, Pontchartrain Apartments, erect \$25,000 film exchange, S. Liberty St., bet. Cleveland and Tulane Ave.

La., New Orleans—Laundry & Dry Cleaning Service, Inc., erect \$20,000 addition to building, Baudin St. bet. White and Dupre St.; metal roof; Jones, Roessel & Olechner, Archt., Maison Blanche Bldg.

La., Shreveport—Mrs. Maurer's Bakery, John D. Lyles, Mgr., 1100 Texas St., erect \$150,000 bakery, Oakland and Hope St.

Md., Baltimore—Gelfand Mfg. Co., Jacob Kurnick, V.-Pres., Monument and Eighth Sts., erect \$50,000 addition to mayonnaise plant; 1-story, brick; Cogswell-Koether Co., 406 Park Ave., probable contractor; Harris Epstein, Archt., 330 15th St., N. E., Washington, D. C.

Md., Baltimore—Fulton Family Laundry, 1706 McHenry St., erecting addition to plant and making alterations; 1 story.

Md., Baltimore—Mutual Chemical Co., John McCracken, Supt., erecting addition to bichromate of soda plant, 1348 Block St.; 35x85 ft.; install machinery.

Md., Baltimore—Maryland Meter Works, E. S. Dickey, Mgr., 309 E. Saratoga St., let contract to North-Eastern Construction Co., 6 W. Madison St., for \$25,000 addition to plant; Theo. Wells Pleitsch, Archt., American Bldg. 5-23

Md., Silver Spring—Griffith-Consumers Co., 1319 G St., N. W., Washington, D. C., acquired site for \$100,000 plant for distributing coal, fuel oil, building material, gasoline, etc.; construction in fall.

Miss., Clarksdale—See Motor Cars, Garages, Filling Stations.

Miss., Meridian—Southern Central Life Insurance Co., incorporated; J. G. Repsher, 501 26th Ave.

Miss., Yazoo City—L. I. Jones, County Agt., negotiating with Swift & Co., U. S. Stock Yards, Chicago, Ill., for establishing meat packing plant.

Mo., Kansas City—American Asphalt Roof Co., 15th St. and Blue River Ave., has plans under way for \$90,000 addition to prepared roofing plant; 1 story, 105x135 ft.

Mo., Kansas City—H. R. Brandt start work July 1 remodeling Massachusetts Bldg. into loft building; to be occupied by Gordon Howard Co., 717 Wyandotte St., candy manufacturer.

Mo., Kansas City—Eye-Ryne Mfg. Co., capital \$40,000, incorporated; Henry A. Axene, 3700 Cherry St.; chemicals, etc.

Mo., Kansas City—Teachers Supply Co., capital \$10,000, incorporated; M. L. Butler, 4415 Francis St.; printing, publishing, binding, etc.

Mo., Perryville—Chamber of Commerce negotiating with Mid-Continent Dairy Products Co., Cape Girardeau, for establishing \$30,000 milk cooling plant.

Mo., Picher—G. A. Spaulding and Ray A. Berentz acquired Mid-West Electric Machinery Co., F. W. Evans; continue offices in Connell Hotel.

Mo., Springfield—Earl Wallace establish monthly magazine to cover Ozarks region of southern Missouri and northern Arkansas.

Mo., St. Louis—Colonial Laundry & Towel Service Co., E. W. Gauber, Pres., 4016 Olive St., acquired building, 4020-4022 Olive St.; plans extensive improvements.

Mo., St. Louis—Natural Rock Asphalt Co., incorporated; Lowell Sparling, International Life Bldg.

Mo., St. Louis—J. P. Sparks Construction Co., capital \$10,000, incorporated; John P. Sparks; Seneca C. Taylor, both Kirkwood.

Mo., St. Louis—Moore Shoe Co., 235 S. Boyle St., let contract to Kaplan-McGowan Co., 315 N. Seventh St., for \$10,000 addition to shoe factory; 90x54 ft., comp. roof; B. Shapiro, Archt., Syndicate Trust Bldg.

N. C., Asheville—Oakley Co., Inc., capital \$100,000, chartered; R. Waugh, Pine Wood Rd., Newbridge; chemicals, etc.

N. C., Charlotte—Charlotte Engraving Co., Kenneth W. Whisett, Pres., capital \$100,000, formed by merger of Charlotte Engraving Co. and Bierman Engraving Co.; Bierman plant to be closed and all equipment moved to 19½ E. Third.

N. C., Greensboro—Stockholders of Vick Chemical Co., H. Smith Richardson, Pres., approved 2 for 1 split-up of common stock and increase in authorized amount, 400,000 to 1,200,000 shares without par value. 6-13

N. C., Greensboro—Northside Laundry Co., Inc., capital \$100,000, chartered; E. E. Boone, 607 Fifth Ave.

N. C., Wilson—General Operators, Inc., capital \$25,000, chartered; Elmo L. Walls, 407 W. Vance St.; laundry.

Ola., Oklahoma City—Oklahoma Publishing Co. completed plans and soon call for bids for office building; 3-story, brick, stone, rein. conc.; Frank D. Chase, Archt., 720 N. Michigan Blvd., Chicago, Ill.

Ola., Sayre—Chamber of Commerce advises farmer-owned co-operative creamery with production of 1000 cows pledged, organized and financed; immediately construct creamery.

Tex., Abilene—Sunset Stores, Inc., reported, formed by merger of Grissom Stores, J. E. & Hardy Grissom, with stores in Abilene, Colorado, Coleman, Big Spring, Haskell, Quanah and Vernon; Joyce-Pruitt Co., with stores in New Mexico; said to involve approx. \$1,700,000; plans acquiring others.

Tex., Amarillo—Amarillo New Globe, Lubbock Avalanche-Journal, and El Paso Herald-Times, reported, merged under combined ownership of Lindsay Nunn Publishing Co., Gene Howe.

Tex., Brownsville—Automatic Pearl Button Co., Carl H. Umland, Treas., Muscatine, Iowa, establish plant.

Tex., Houston—Panerust Plate Co., capital \$50,000, incorporated; Walter H. Walne, Esperson Bldg.

Tex., Houston—Pacific Gas Radiator Co., C. O. Menig, Sec. Treas., Los Angeles, Calif., plans establishing gas heating appliance plant, probably in Houston.

Tex., Houston—Wofford Syrup Co., Inc., capital \$75,000, chartered; Jesse A. Bryan, Union Natl. Bk. Bldg.; establish plant on Lucey Mfg. Co. property, Fifth Ward; remodel 2 buildings; 50x125 ft., brick; and galv. iron, 50x160 ft.; initial capacity to be 1200 cases syrup daily.

Tex., Marshall—C. A. Pickett, Sec., Chamber of Commerce, Mt. Pleasant, advises \$100,000 worth of stock in Douthitt powdered milk plant subscribed for and approx. \$50,000 paid in; plant to be incorporated for \$200,000, to be known as plant No. 2 of Texas Milk Products Co., Marshall; Titus, Camp, Franklin and Morris Counties joined in subscribing stock; milk truck to cover 4 counties; contract will not be let until August. (See Mt. Pleasant, 6-13.)

Tex., Robstown—Farmers Canning Association, Wm. S. Winston, Plant Supt., immediately begin erecting kraut and pickle canning plant; conc. floor, 20 pits, 15x10x10 ft.

Va., Bristol—Following, reported, plan merger: Big Jack Co., Carroll Widd, Pres., Bristol; Globe-Superior Co., 300 W. Adams St., Chicago, Ill.; Maginnis Cotton Mills, 1050 Constance St., New Orleans; Nunally and McCrea Co., 104 Mitchell St., S. W., Atlanta, Ga.; Blue Bell Overall Co., 524 S. Elm St., Greensboro, N. C.; High Point Overall Co., 307 Willowbrook St., High Point, N. C.; Blue Buckle Overall Co., Loft Bldg., Lynchburg, Va.; Maryland Overall Co., Baltimore, Md.; involves approx. \$10,000,000.

Va., Hopewell—Hercules Powder Co., Wilmington, Del., succeeds to assets and business of Virginia Cellulose Co., Inc.; to be operated as Virginia Cellulose Dept.; will group technical and engineering forces.

Va., Norfolk—Sutton Electric Corp., capital \$25,000, incorporated; Porter O. Sutton, 767 Granby St.

Va., Pamplin—Ideal Garment Co., Inc., capital \$15,000, chartered; F. H. Lukin.

Va., Petersburg—Yorktown Mfg. Co., Inc., capital \$50,000, incorporated; Edward L. Jones, 1845 Mataox Ave., W. H.; manufactures golf clubs, balls, etc.

### Motor Bus Lines and Terminals

Ga., Savannah—Savannah Electric & Power Co. purchased 5 automobile buses for Daffin Park service from Twin Coach Co., Kent, Ohio.

Ky., Pikeville—Consolidated Coach Corp., subsidiary of Kentucky Traction & Terminal Co., Lexington, acquired Safety Coach Transit Co., operating line, Corbin to Pineville; Big Six Bus Co., operating line Corbin, Ky., to Knoxville, Tenn., included.

S. C., Aiken—Camel City Bus Lines applied to Railroad Comm. for permission to operate bus line, Alken to Augusta; South

Carolina Power Co. applied to substitute buses for electric car service between same cities.

Va., Richmond—Corporation Comm. tentatively approved application of Duntreath Bus Line to operate passenger bus service on Cary and Three Chopt Rd.

W. Va., Huntington — W. J. McLaren, Welch, authorized by State Road Comm. to operate bus line, Huntington to Williamson.

### **Motor Cars, Garages, Filling Stations**

Ala., Mobile—G. E. Barnes Co., Inc., capital \$75,000, chartered; G. E. Barnes, 1657 Hunter Ave., automobile accessories.

Ala., Tuscaloosa—Standard Oil Co., plans erecting filling station, 13th St. and Queen City Ave.

Ark., Conway—M. M. Hiegel erect \$25,000 building for Winn-Janes Chevrolet Co.

Ark., Magnolia—Grayson Motor Co. erect warehouse on extension of N. Washington St. for storing used cars.

Ark., Rogers — Benton County Hardware Co., W. M. Griffith, Mgr., erect service station, garage and show room, Second and Elm St.

Fla., Fort Lauderdale—Broward, Hudson & Essex Co. incorporated; E. B. Griffis, G. Trammell.

Fla., Miami—John C. Bilford erect gasoline filling station and repair shop, Fourth St. and Lenox Ave.

Fla., St. Cloud—C. E. Rinehart, McKeesport, Pa., acquired site west of city; erect home, garage and service station.

Ga., Atlanta—Walter T. Candler, 20 Houston St., N. W., let contract to Carr Construction Co., Candler Bldg., for \$200,000 automobile building, W. Peachtree St. and Grant Pl.; to be leased to United Motors Service, Inc., O. J. Coe, Mgr., subsidiary of General Motors Corp., Detroit, Mich.; Ivey & Crook, Archt., Candler Bldg. 6-13

Ga., Augusta—Branch & Smith, 334 Walker St., have contract for 2 drive-in filling stations; one at Ninth & Reynolds Sts., for Clause Investment Corp.; other at Greene & 13th Sts., for Texas Oil Co.; brick, stucco.

Ga., Augusta—Boardman Bros. let contract to Silbert & Robinson, 126 Eighth St., for 4 filling stations at northwest corner of Greene and 12th Sts., southwest corner Baker Ave. and Walton Way, Wrightsboro Rd. and Baker Ave. and southeast corner Broad and 15th St.

Ga., Rome—Milner Motor Co. has low bid from Yost Construction Co., Candler Bldg., Atlanta, for \$32,000 garage; Jess Wilholt, Archt., Mortgage Guarantee Bldg., Atlanta. 5-30

Ga., Savannah—Standard Oil Co., Thomas W. Hoynes, Dist. Mgr., acquired site, Garden Ward; later erect filling station.

La., New Orleans—Dixie Motors Corp. incorporated; Leon L. Labatt, 1742 St. Charles Ave.

La., New Orleans—John T. Fisher Motor Co. Dudley St. and Eastmoreland Ave., increased capital, \$150,000 to \$200,000.

La., Shreveport—Semon Tire Service, Inc., chartered; Lewin N. Semon, 424 Washington St.

La., Shreveport—Mrs. Fannie A. Noel erect filling station, northeast corner of Creswell and Olive Sts.

Md., Baltimore—American Oil Co., American Bldg., acquired site, Charles and 20th St.; probably erect filling station.

Md., Baltimore—East End Laundry, Charles A. Spann, Mgr., 4403 Pennsylvania Ave., let contract to E. Eyring & Sons, Co., for garage; 111 x 132 ft., brick, steel, 1-story, monitor type; John Eyring, Archt., 808 S. Conkling St.

Md., Baltimore—Texas Co., Old Town Natl. Bldg., erect \$10,000 filling station, 4255-57 Harford Ave.; 18x11 ft.; A. L. Van Sicklen, company Archt., 17 Battery Pl., New York; owner builds.

Miss., Clarksdale — Crescent Baking Co., F. S. Canfield, Mgr., let contract to W. R. Ellis for \$15,000 addition for storing trucks; expend \$20,000 for interior remodeling bakery. 3-7

Mo., St. Louis—Western Auto Co., 4816 Washington St., erect \$32,000 addition to 3-story salesroom, 4810-16 Washington St.; 99 x127 ft., rein. conc. roof; J. Hercules Co., Archt.

Mo., St. Louis—Standard Tire Co., capital \$75,000, incorporated; Harry F. Schweighofer, 3672 Kingshighway.

Mo., Webster Groves—Suburban Motor Co., incorporated; Wm. L. Massey, 200 Parkhurst Terrace.

Okla., Tulsa—Cleves Bruce, 12 E. Fourth St., erect garage, 1830 S. Baltimore Ave.

Tex.-Ark., Texarkana—N. P. Sanderson let contract to Oats Bros. Construction Co. at \$75,500 for storage garage, Vine St.; to be occupied by Downtown Storage; 3 and 4 story, 140x98 ft., brick, conc. floors; Witt, Seibert & Halsey, Archts.

Tex., Bryan — Brazos Motor Co., capital \$10,000, incorporated; A. C. Williams, H. L. Whitley.

Tex., Corpus Christi—Grayburg Oil Co., Maverick Bldg., San Antonio, probably erect filling stations in fall. 6-13

Tex., Del Rio—Dobkins Motor Sales Co., capital \$50,000, incorporated; John Dobkins, Walter Jones.

Tex., Fort Worth—Firestone Tire & Rubber Co., Harvey S. Firestone, Pres., Akron, Ohio, reported, may erect a super service station, W. Seventh and Henderson St. 4-4

Tex., Houston—South Texas Motor Co., capital \$80,000, incorporated; P. L. Davis, 408 Avondale St.

Tex., Houston—C. Jim Stewart & Stevenson, 1719 Preston St., let contract to West & Jensen for \$10,000 building, Caroline and Calhoun St.; 100x50; to be occupied by House Service Parts Co., W. A. Hayes, Pres., 1505 Fannin St.

Tex., San Antonio—H. S. Gibson, San Antonio and Laredo, perfected automatic auto laundry system; plans erecting first auto laundry soon; system includes complete facilities for greasing, etc.

Tex., Turkey—Phillips Petroleum Co., Bartlesville, Okla., erect filling station, Main and Fifth St.; also erect shipping docks and storage tanks within near future; total cost, \$40,000.

Va., Suffolk—Motor-Car Ventilator Corp., capital \$50,000, incorporated; R. G. Salterton.

### **Railways**

Alabama—Alabama, Tennessee & Northern R. R. Corp., W. Toxey, Ch. Engr., Mobile, authorized by Interstate Commerce Comm. to construct extension of line, Mobile County.

Fla., Bartow—Seaboard Air Line Ry. Co., W. D. Fauchette, Ch. Engr., Savannah, Ga., construct  $\frac{1}{4}$  mi. extension, Connor's packing house, near here, toward Excelsior Park; includes bridge over Peace Creek; cost \$50,000.

Fla., Mayo—Mayo & Cook's Hammock R. R. Co. applied to Interstate Commerce Comm. for permission to construct 15-mi. line between Mayo and Cook's Hammock, Lafayette County.

Maryland — Syndicate headed by George Detrick, New York, Pres., Liberty Burner Corp., acquired Chesapeake Beach Ry. Co., S. Penrose, Pres., Colorado Springs, Col.; George Detrick to be president; Eugene Fox, V.-Pres.; plan developing town site of Chesapeake Beach; deal involves town site, amusement enterprises, light and water plants.

Md., Baltimore—City Council concluded public hearings on \$22,500,000 improvement ordinances for Pennsylvania R. R., W. W. Atterbury, Pres., Philadelphia, Pa.; no open bidders to be in east and west tunnels and no extension or enlargement in plans without consent and approval of Mayor and Council; E. B. Temple, Ch. Engr., Eastern Region, Philadelphia, Pa. 5-9

Md., Baltimore—Canton Co., Walter B. Brooks, Sr., Pres., South and Water St., announced more than majority of stockholders agreed to sell holdings to American Exchange Securities Corp., subsidiary of Irving Trust Co., New York, at \$506 per share, payable in cash on and after June 18, 1929, with stockholders retaining right to regular dividend of \$4 per share payable June 29, 1929; all stockholders to have right to regular sell their stock on same terms upon presentation by them on and after June 18, 1929, with certificates properly endorsed to Irving Trust Co., New York, or at Drovers & Mechanics National Bank, Baltimore; contract of sale subject to no conditions except verification of company's balance sheet with respect to its current assets and indebtedness; Canton Co. owns Canton Railroad Co., about 3 mi. water front and over 1700 acres unimproved land, piers, warehouses, railroad and ground rents; deal said to involve approx. \$14,000,000; it is not disclosed who American Exchange Securities Corp. represents, but it is said to be a trunk line railroad.

Missouri—Missouri Southern R. R. Co., J. A. Fremon, V.-Pres., Leeper, let contract to O'Dell Construction Co., Hannibal, for constructing extension of line, Reynolds and Shannon Counties. 2-14

Mo., Hornersville—St. Louis Southwestern Ry. Co., W. S. Hanley, Ch. Engr., Tyler, Tex., let contract to Winston Bros., St. Paul, Minn., for constructing extension, Hornersville to Leachville, Ark., 11 mi. 5-2

Oklahoma—Chicago, Rock Island & Pacific Ry. Co., J. E. Gorman, Pres., La Salle St. Station, Chicago, Ill., advises Beaver, Meade & Englewood R. R. Co., has authority from Interstate Commerce Comm. to further extend line, Hough to Keyes, where it will cross Atchison, Topeka & Santa Fe Ry.; when Rock Island is authorized to acquire Beaver, Meade & Englewood, probably extend it as far west as authorized. 6-6

Texas—Atchison, Topeka & Santa Fe Ry., W. B. Storey, Pres., Chicago, Ill., and Pan Handle & Santa Fe Ry. Co., J. R. Hitchcock, V.-Pres. and Gen. Mgr., Amarillo, reported, authorized by Interstate Commerce Comm. to acquire control by lease of Kansas City, Mexico & Orient Ry. Co. of Texas, W. B. Storey, Pres.

Tex., Gonzales—Southern Pacific Co., G. W. Boschke, Ch. Engr., San Francisco, Calif., reported, rebuild track destroyed by floods between Luling and Gonzales.

Tex., Presidio—Kansas City, Mexico & Orient Ry. Co. of Texas, subsidiary of Atchison, Topeka & Santa Fe Ry. Co., G. W. Harris, Ch. Engr., 80 E. Jackson Blvd., Chicago, Ill., complete location of proposed line, Alpine to Presidio, 85 mi., about July 1; will not call for bids until location is complete. 5-23

### **Railway Shops and Terminals**

Okla., Tulsa—St. Louis-San Francisco Ry. Co., F. G. Jonah, Ch. Engr., St. Louis, Mo., has plans under consideration for grade separations over right-of-way on 4 streets, lowering or tracks and building union depot.

Va., Norfolk—See Miscellaneous Construction.

### **Roads, Streets and Paving**

In connection with **LAND DEVELOPMENT** large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

#### **Proposed Construction**

Ala., Birmingham—Jefferson County Bd. of Revenue considering improving 3 sections of roads near Leeds.

Ala., Florence—Lauderdale County Comr. plan 1½ mi. grading north of Anderson.

Ala., Selma—Dallas County Bd. of Revenue plans improving Marion Junction and Brown's Station roads; gravel Morrow road; improve Pettus Randall road; repair road from Cahaba River landing to old cemetery; bridge over Little Okmulgee Creek, North Dallas; improve Deffke-Hamilton road near Safford.

Ark., Camden — City, J. L. Hendricks, Chmn. Street Committee, considering paving South Main St. from present pavement to city limits.

Ark., Fort Smith—Sebastian County, S. A. Lynch, County Judge, plans paving 2 roads; 2½ mi. Free Ferry road, Rogers Ave. to Waldron road; 2½ mi. Hendrick's Blvd., south from Little Rock road.

Ark., Rogers—City, J. H. Rood, Mayor, plans laying sidewalks on various streets.

Fla., Coconut Grove, Miami—City received low bid from Everglades Construction Co., Country Club Estates, Hialeah, to pave N. W. Twenty-fifth Ave., and Marler St.

Fla., Jacksonville — City Comm., M. W. Bishop, Sec., plans expending \$300,000 to pave street intersections; \$300,000, to acquire land to straighten, widen and open 5 streets, including Main, Beaver, Pearl St. and Springfield Blvd. See Financial News Columns.

Fla., Miami—City, Welton A. Snow, Mgr., considering improving and widening N. W. Fourteenth Ave., Twentieth St. to Aliapattah Drive; C. S. Nichols, City Engr.

Ga., Dalton—City Council considering 4 blocks, 25 ft. wide, 6-in. conc. pavement and from intersection with North Depot and Lucky St. to intersection with North Depot Glenn St., bids July 1; Knox T. Thomas, Engr., Atlanta.

Ga., Savannah — Chatham County plans survey of 14 mi. Tybee road from Thunderbolt to limits of town of Tybee; H. J. Friedman, Engr.

Ky., Owensboro—Daviess County Comms., planning to top surface with gravel, about 2 mi. Fifth St. road, from city limits, at Sixth St., westward; J. W. Spurrier, County Engr.

La., Monroe—Ouachita Parish Police Jury plans creating Sub-Road Dist. No. 3, Ward 1, to hard surface road between Monroe and Sterlington.

La., Pineville—Louisiana Highway Comm., O. K. Allen, Chmn. Baton Rouge, plans widening Main St., from traffic bridge to city limits; fill out shoulders on either side asphalt paving, with gravel.

La., Shreveport—City, S. G. Wolfe, Sec.-Treas., receives bids June 25 to pave Looney St., Pierre to Texas and Pacific R. R., with rock asphalt.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids June 25 for 5 roads: Montgomery County—1.7 mi. conc., Damascus-Laytonsville road, end of Cont. M-64 through Woodfield, Cont. M-122; Prince Georges County—1.05 mi. conc., from end of Cont. P-34, Hall's Station, to Crain Highway, Cont. P-97; Baltimore City—.64 mi. sheet asphalt, York Road, from Church lane to city limits, BC-79; Kent County—.83 mi. conc., from end of Cont. K-33, near Lynch to Fair Lee, Cont. K-38; Worcester County—1.53 mi. conc., end of Cont. Wo-40, Berlin, toward Libertytown, Cont. Wo-47; L. H. Steuart, Sec.

Md., Baltimore—City, Bd. of Awards, receives bids June 25 to grade, curb and pave with 13,450 sq. yd. granite block streets in Cont. No. 528; Nathan L. Smith, Highways Engr.

Md., Baltimore—City, Bd. of Awards, received low bid from Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., \$49,491, to pave Monument St., Highland Ave., to point west of Philadelphia road.

Md., Baltimore—City, Bd. of Estimates, approved paving McComas St., from Gould to Key Highway, estimated cost \$61,500.

Md., Baltimore—City, Wm. F. Broening, Mayor, plans extending Cornwall St. through Camp Holabird property to plant of Western Electric Co.; providing underpass to carry extension beneath three lines of railroad tracks; will join with Boston St.; War Dept. Washington, granted right of way through property, conditionally; Chas. F. Goob, Ch. Engr.

Md., Cumberland—City, Thomas W. Koon, Mayor, receives bids June 24 to grade, pave, etc., Cecil St.; widen Washington Ave.; build driveway at Memorial Hospital; 4,110 sq. yd. conc., 5,680 sq. yd. black top paving; 5,320 sq. ft. conc. sidewalks; 1,930 ft. conc. curb; Ralph L. Rizer, City Engr.

Md., Mount Rainier—Town Council plans expending about \$118,000 for paving and sidewalks on 12 streets.

Md., Towson—Baltimore County Comms., John R. Haut, Ch. Clk., receives bids June 25 for road and 2 bridges: 45-ft. span rein. conc. arch bridge over Stemmers Run, on Race road, 15th Dist.; 75-ft. rein. conc. arch bridge, Dogwood road, over branch of Patapsco River, Hollowayfield, 2nd Dist.; 1.38 mi. grading Wampler road, Bird River road to Magnolia Ave., 15th Dist.; Samuel A. Green, Roads Engr.

Miss., Belmont—Town, Mayor and Bd. of Aldermen, receive bids July 2 to pave Main and Second St., in business section.

Miss., Canton — Madison County Bd. of Supvrs. receives bids July 1 for 1.499 mi. road between Flora and Bentonia; 95,531 cu. yd. excavation; also bridges, 105,945 ft. B.M. creosoted lumber.

Miss., Durant—Town, L. J. Wilkes, Clk., receives bids July 2 for street improvement.

Miss., Hazlehurst—City Comms. plan paving 1 mi. Extension St., and sections of Green, Crocker, Estelle and Georgetown St.

Miss., Laurel-Jones County Bd. of Supvrs. receives bids July 3 for 3 roads: Gravel Laurel-Taylorville road, Bynum's garage, west of Laurel to county line; gravel Ellsville-Collins Highway, from Ellsville to Covington County line; grade and finish lower Myrick road.

Miss., Lexington—City plans gravel driveway at Lexington school grounds; graveling Westwood Ave., along front of Community hospital.

Miss., McComb — City, X. A. Kramer, Mayor, plans expending about \$74,000 for sidewalk paving Project 2, and paving Third St. and Boulevard. See Financial News Columns.

Miss., McComb—City, Mayor and Bd. of Aldermen, receive bids July 16 for 5,000 sq. yd. paving, Northwest Ave.; Henry A. Mentz & Co., Consit. Engr., Hammond, La.

Miss., Vicksburg—Warren County Bd. of Supvrs. and city of Vicksburg, receive bids July 2 for Federal Aid Project No. 201-B, on state trunk road, between Vicksburg and Port Gibson; Conc. base course, sheet asphalt binder, combination conc. curb and gutter, 2 course conc. sidewalks; also bridge 134-810 lb. rein. steel, 476,000 lb. struct. steel.

Missouri—State Highway Comm., Jefferson City, receives bids June 27 for 27 roads and 25 bridges: Gentry County—4,516 mi. 30-ft. graded earth, King City, west, 97,605 cu. yd. excavation, bridges over Elm Grove Branch, and Third Fork of Platte, deck girder; Nodaway County—3,323 mi. 30-ft. graded earth, Clearmont, south, 63,109 cu. yd. excavation, bridges over north and south fork of Muddy River; Adair County—4,558 mi. 30-ft. graded earth, Kirksville, west, 85,320 cu. yd. excavation; Grundy County—1,919, 4,026, 2,185, 3,066 mi. 19, 18 and 9 ft. conc., Spickard-Trenton road, 38,165 cu. yd. excavation, 64,433 sq. yd. paving; Sullivan County—1,853 mi. 30-ft. graded earth, Monroe County-Perry, 67,906 cu. yd. excavation, bridges over Burbidge and Lick Creeks; Johnson County—bridge extension over Blackwater Creek, 22,430 lb. struct. steel; Cass County—4,121 mi. 30-ft. graded earth, Lees Summit-Harrisonville road, 103,196 cu. yd. excavation, bridges over Elm and Smart Creeks; Lafayette County—4,776, 2,195 and 2,505 mi. 18-ft. conc., Lexington-Higginsville road, 18,952 cu. yd. excavation, 99,856 sq. yd. paving; Montgomery County—1,786 mi. 18-ft. gravel, Hermann-McKittrick road, 128,830 cu. yd. excavation, bridges over Loutre Ditch and Slough, 258,440 lb. struct. steel; St. Louis County—4,067, 2,246 and 2,075 mi., 20 and 40 ft. conc., Sappington to Mehlville, Big Bend road to Sappington and Wellston, north, roads, 99,856 cu. yd. excavation, 106,949 sq. yd. paving, bridges over Frisco R. R.; Ste. Genevieve County—3,242 and 3,049 mi. 18-ft. gravel, Route 32, north, 92,450 cu. yd. excavation, bridges over North Gabouri Creek; Barton County—3,766, 2,370 mi. 18-ft. chats, Lamar, east, 83,953 cu. yd. excavation, bridge over Muddy Fork of Spring River and over Dry Branch, 129,130 lb. struct. steel; Bates County—4,025 mi. 18-ft. chats, Butler, west, 12,129 cu. yd. excavation; Jasper County—1,454 mi. 30-ft. graded earth, Sarcoxie, east, 57,869 cu. yd. excavation, bridges over Jones and Jenkins Creeks; Vernon County—4,477 mi. 18-ft. chasm, Deerfield, west, 55,055 cu. yd. excavation, bridge over Bear Creek; Carter County—2,447 mi. 30-ft. graded earth, Freemont-Van Buren, 90,911 cu. yd. excavation, bridges over Little Pike Creek, Snider and Evans Hollow; Oregon County—4,953 mi. 30-ft. graded earth, Alton, south, 52,140 cu. yd. excavation, bridge over Tucker Branch; T. H. Cutler, State Highway Engr.

Missouri—State Highway Comm., Jefferson City, receives bids June 28 for 28 roads and 29 bridges: Clinton County—3,189 and 2,241 mi. 9-ft. conc., Plattsburg, north, 7406 cu. yd. excavation, 28,534 sq. yd. paving, 1,851 mi. gravel, Plattsburg, east; Holt County—3,964 mi. 18-ft. conc., Oregon, east, 57,516 cu. yd. excavation, 41,887 sq. yd. paving, bridges over Mill and Rock Creeks, deck girder; Chariton County—3,534 mi. 30-ft. graded earth, Route 24, south, 53,637 cu. yd. excavation, Wabash underpass, bridge over Puzzle Creek; Mercer County—3,716, 4,650, 4,707 mi. 30-ft. graded earth, Princeton, east, 300,166 cu. yd. excavation, bridges over Wild Cat, Muddy, Little Medicine, Burris and West Medicine Creeks; 375-ft. retaining wall at Ravanna Cemetery; .600 mi. 18-ft. conc. through Princeton, 10,852 cu. yd. excavation.

In Schuyler County—3,481 and 3,485 mi. 30-ft. graded earth, Glenwood, west, 251,500 cu. yd. excavation; bridges over Hooks and Elm Creeks; Audrain County—1,455 and 3,571 mi. 20-ft. conc., Mexico, south, 85,642 cu. yd. excavation, 58,758 sq. yd. paving; bridges over Hamilton and Scattering Branches, deck girders; Carroll County—2,239, 1,597 mi. graded earth, Tina-Carrollton road, and Brunswick, west, 105,759 cu. yd. excavation, bridge over Wakunda Overflow and over Grand River Overflow; Platte County—2,956 and 2,882 mi. 2-ft. conc., Route 71, south, 75,731 cu. yd. excavation, 69,234 sq. yd. paving; Camden County—4,863 mi. 18-ft. gravel; Laclede County, north, 56,061 cu. yd. excavation, 33,821 sq. yd. paving; Cole County—2,528 mi. 18-ft. gravel, Jefferson City, south, 86,404 cu. yd. excavation, 47,872 sq. yd. paving, bridges over Moreau River and Moreau River Overflow, deck girder.

In Vernon County—4,005 and 2,846 mi. 20-ft. conc., Nevada, south, 7433 cu. yd. excavation, 78,893 sq. yd. paving; Polk County—3,008 mi. 18-ft. gravel, Bolivar-Buffalo road, 55,530 cu. yd. excavation, bridges over

Ditch Special and Pomme de Terre River, deck girders; Pulaski County—4,949 mi. 30-ft. graded earth, Waynesville, west, 74,097 cu. yd. excavation; Shannon County—1,701 and 3,482 mi. 30-ft. graded earth, Montier-Birch Tree, 60,782 cu. yd. excavation, bridges over East and West Forks of Birch Creek, over Dry Wash, etc.; Texas County—4,305 mi. 26-ft. graded earth, Plato-Roby, 28,932 cu. yd. excavation, bridge over Rock Creek; Mississippi County—4,943 and 4,003 mi. 16-ft. gravel, Bertram, south, 67,600 cu. yd. excavation, bridge over Drainage Ditch; T. H. Cutler, State Highway Engr.

Mo., Cape Girardeau—City, Charles J. Banks, Mayor, plans paving Themis St., with conc. Park to Boulevard; with Amie-site from Boulevard to Louisiana Ave.

Mo., Huntsville—Randolph County considering expending \$400,000 for farm-to-market roads. See Financial News Columns.

Mo., Jefferson City—City, F. E. Ross, City Engr., receives bids July 1 for 3,333 cu. yd. excavation, 2,934 sq. yd. cement cone. paving, 2,480 lin. ft. cement cone. curb on Aycinson St.

Mo., St. Louis—City, Bd. of Public Works, plans letting contract soon to grade and drain Lambert-St. Louis flying field; W. W. Horner, Ch. Engr.

Mo., St. Louis—City, Bd. of Public Service receives bids July 2 to improve and rebuild various streets.

Mo., St. Louis—City, Bd. of Aldermen, plans Warrenite bitulithic paving, 3 sections, Kingshighway, Northwest: Genevieve to Lillian, cost \$140,980; Lillian to Lucille Ave., \$50,138; Lucille to West Florissant Ave., \$47,276; section of Bircher-Kingshighway, from Kingshighway to Genevieve Ave., cost \$165,000; widening Delmar Blvd. to 55 ft. Grand Blvd. to Vandeventer Ave., cost \$32,120; W. W. Horner, City Engr.

Mo., St. Louis—City, Bd. of Public Service, receives bids July 2 to rebuild 5 streets, including Lemp Ave., Horton Place, De Tonty St.; improve 6 streets, including January Ave., Miami St.

North Carolina—State Highway Comm., John D. Waldrop, Acting Highway Engr., Raleigh, receives bids July 15 for 9 roads and 3 bridges, including 3 mi. hard surface, grading, top-soiling, bridges, etc., costing about \$800,000: Brunswick County—gravel surface approach fills to new Wilmington Bridge over Cape Fear River, Route 20, Dist. No. 3; Gaston County—7 mi. hard surface, Route 27; Mt. Holly to Stanley; Stanly County—10.2 mi. hard surface, Route 74, Albemarle to Cabarrus County line; 6.6 mi. grading, hard surface, Albemarle to Badin; Wilkes County—9 mi. grading, draining, top soil, Route 60, Wilksboro to Deep Gap, Dist. No. 7; Cleveland County—10 mi. grading, draining, top soil, Route 18, Shelby to South Carolina line, toward Gaffney, Dist. No. 8; Craven County—17 mi. grading, draining, Route 30, New Bern to Vanceboro, Dist. No. 2; Lenoir County—10 mi. hard surface, structures, Kinston toward Hargett's store; Beaufort County—9 mi. grading, hard surface, Route 33, Chocowinity to Aurora; Craven County—draw span on Neuse River Bridge, New Bern, Route 20; Dist. No. 3; Catawba County—overhead bridge over C. & N. W. R. R., Newton, Route 10; Mecklenburg County—overhead bridge at Thrift, Route 271.

N. C., Asheville—City, Stanley H. Wright, City Engr., will resurface and repair 4 streets, including South French Broad, Central Ave.

N. C., Raleigh—City, W. C. Olsen, Engr., received low bid from R. G. Lassiter & Co., Citizens Bk. Bldg., Raleigh, \$50,000, for 15,000 sq. yd. asphaltic conc. etc., paving, including Glenwood Ave. 5-23

N. C., Roxboro—Town authorized Spoon & Lewis, Consit. Engrs., Jefferson Bldg., Greensboro, to prepare plans for proposed street improvements; receive bids soon.

N. C., Winston-Salem — City, Harry L. Shaner, Commr. of Public Works, considering widening Liberty St., Southern Ry. Overhead Bridge to Fourteenth St.

Oklahoma — State Highway Comm., John H. Rightmire, Acting State Highway Engr., Oklahoma City, plans receiving bids for 3 sections roads: Lincoln County—grading, draining, bridges, U. S. Highway No. 66; 8.24 mi. Highway No. 33, Cushing to Drumright; 11 mi. U. S. Highway No. 73, Crowder to Befaula Bridge.

Oklahoma—State Highway Comm., John H. Rightmire, Acting State Highway Engr., Oklahoma City, plans receiving bids for 3 highways, two between Tulsa and Oklahoma City; Lincoln County—5 mi. U. S. Highway No. 66; 8.24 mi. Highway

No. 33, between Cushing and Drumright; 11 mi. Highway No. 73, Crowder to Eufaula Bridge; probably let contract within 30 days.

Okl., Bartlesville—Washington County Comms., plan paving 4 mi. 80-ft. Nowata Highway, east from Bartlesville.

Okl., Muskogee—Muskogee County, C. R. Morgan, County Engr., plans  $\frac{3}{4}$  mi. conc. paving from York and Gibson St. to entrance of Oklahoma School for Blind; \$20,000 appropriated.

Okl., Oklahoma City—Oklahoma County Comms., plan graveling 5 mi. road, from East Twenty-third St. road to end of gravel on Witcher road.

Okl., Tulsa—Tulsa County Comm., receives bids June 24 for 3 roads: 2½ mi. Turkey Mountain road, south from present end of paving; 2 mi. Lewis Ave., from Bethel Union corner to Stunkard's corner; 1¼ mi., connecting gap on Wekiwa road, west of Sand Springs; H. A. Parker, County Engr.

South Carolina—State Highway Comm., Ben M. Sawyer, Ch. Highway Commr., Columbia, receives bids June 25 for 5 roads and 2 bridges: Greenville County—9,869 mi. plain Portland cement conc., Route 2, Mauldin, via Simpsonville to Fountain Inn, 88,350 cu. yd. excavation, 35,886 sq. yd. 7½-6-7½-18-ft. plain conc. paving, 22,411 sq. yd. 7½-6-6½-20-ft. plain conc. paving, 47,183 sq. yd. 8-6½-8-18-ft., and 1,056 sq. yd. 7-6½-8-20-ft. plain conc. paving, 14,308 lb. rein. steel; Lexington County—4,942 mi. plain cement conc., Dam road, from Southern R. R. station, Lexington, to Saluda Dam, 8,566 cu. yd. excavation, 30,168 sq. yd. 7½-6-7½-18-ft., 21,850 sq. yd. 8-6½-8-18-ft. conc. paving; Barnwell County—915 mi. grading and sand clay surface, Route 64, in Town of Dumbarton; Chesterfield County—19,388 mi. grading, from Town of Patrick to point near Lynches River, 6.02 mi. grading, sand clay surface, Route 95, Chesterfield to North Carolina line, 76,686 cu. yd. excavation, 14,035 cu. yd. top soil surface, 26,043 lb. rein. steel; Lancaster County—overhead bridge on Route No. 9, over Southern R. R., near Lancaster, 67,372 lb. rein. steel, Sumter County—treated timber bridge in Rocky Bluff Swamp, Route 763.

S. C., Aiken—City Council plans widening Richland Ave. 5 or 6 ft., Laurens to Newberry St.; Colleton Ave.

S. C., Charleston—City, Dept. of Public Service plans sheet asphalt pavement on Bay St., Blake to Cooper; Nunan St., Ashley to President; J. H. Dingle, City Engr.

S. C., Greenville—Greenville County, James H. Price, County Atty., plans paving with conc., Dunham Bridge road, between Greenville and Saluda River; plans changing portions of Greer Highway, and hard surfacing and paving; A. F. Pridmore, County Supvr.

S. C., Greenville—City, Dan A. Hulick, City Engr., receives bids soon for 11,000 sq. yd. asphalt or conc. paving on 4 streets and alley in residential section.

Tenn., Knoxville—City, Neil Bass, Mgr., receives bids, probably, first week in July, for paving 36 improvement districts; Harry J. Wight, City Engr.

Tenn., Knoxville—City, Neil Bass, Mgr., plans widening Kingston Pike 63 ft., from Third Creek to Concord, and 49 ft. Concord to Lyons View road. 5-23

Tenn., Maryville—Blount County Highway Comm., plans improving 4 secondary and 10 district roads, including road from Leatherwoods to Monroe County line; Maryville to Loudon County line; 9 mi. road, from Sunshine to summit of Cades Cove Mountain; 9 mi. Maryville to Montvale Springs.

Tenn., Maryville—Dept. of Highways and Public Works, Nashville, resurveying for highway to be built between Maryville, Blount County and Sevierville, Sevier County.

Tex., Austin — City, Adam R. Johnson, Mgr., will pave South Congress Ave., Colorado River Bridge to Nellie St.

Tex., Beaumont—Jefferson County, B. B. Johnson, County Judge, plans expending \$3,500.00 for 2 roads: Beaumont-Port Arthur Highway; College St. extension, cut-off on Old Spanish Trail, from Beaumont to Amelia. See Financial News Columns.

Tex., Calvert—City plans expending \$65,000 for street paving. See Financial News Columns.

Tex., Cleburne—Johnson County plans expending \$30,000 for road building in Dist. No. 4. See Financial News.

Tex., Corsicana—State Highway Comm., Austin, plans 54 mi. highway from Corsicana into Anderson County, joining High-

ways No. 14 and 34, latter passing through Ennis and Waxahachie; also bridge across Trinity River, at Anderson-Navarra County line; Gibb Gilchrist, State Highway Engr.

Tex., Coleman—City, E. P. Scarborough, Mayor, plans expending \$135,000 for street improvement. See Financial News Columns.

Tex., Cuero—State Highway Comm., Austin, authorized additional asphaltic treatment on 14 mi. Highway No. 29, De Witt County, from Victoria County line to point north of Cuero; plans surfacing Highway No. 29 to Gonzales County line and Highway No. 72, Cuero to Yoakum; Gibb Gilchrist, State Highway Engr.

Tex., Dalhart—State Highway Comm., Austin, and Dallam County, plans improving U. S. Highway No. 54, from Dalhart, Dallam County, to New Mexico State line; also highwater mark bridge over Punta De Agua Creek; costing about \$10,000.

Tex., Dallas—City, J. Waddy Tate, Mayor, plans expending \$625,000 to widen Ervy St.

Tex., Dallas—City, J. Waddy Tate, Mayor, considering extending Denley Drive to connect Trinity Heights and outlying areas with Oak Cliff proper.

Tex., Elgin—City considering hard surfacing Main St.

Tex., Freeport—E. C. Tobey, Chmn., Navigation and Canal Comm., receives bids July 10 to prepare roadway, haul, spread and surface shell; about 1800 tons.

Tex., Goose Creek—City plans expending \$65,000 for street paving. See Financial News Columns.

Tex., Haskell—Haskell County Comms., plan expending \$125,000 toward improving 17 mi. Highway No. 18, from Stamford to Sagerton Dist. See Financial News Columns.

Tex., Houston—City, Walter E. Monteith, Mayor, plans expending about \$400,000 to pave Yale St., build bridge across White Oak Bayou and underpass at H. & T. tracks; \$128,000 toward paving Clinton Drive; \$15,000 to extend West Gray Ave., from Waugh to Shepherd; \$42,000, storm and sanitary sewers; \$30,000, extend West Gray Ave., Valentine to Taft; \$90,000, storm and sanitary sewer; H. L. Shaw, City Engr.

Tex., Junction—Kimble County plans grading, draining Highway No. 20-A, from Gillespie County line to junction with Highway No. 27.

Tex., Lagrange — City, H. W. Speckels, Mayor, receives bids June 26 for 12 blocks paving in business section; \$100,000 available.

Tex., Lockhart—Caldwell County Comms., considering expending \$300,000 for road building in Dist. No. 1. See Financial News Columns.

Tex., San Antonio—Bexar County, Perry S. Robertson, County Judge, receives bids June 24 for  $\frac{1}{2}$  and  $\frac{1}{2}$  in. natural limestone rock asphalt topping, Macadona-Lacoste road, Precinct No. 1; W. S. Kendall, County Auditor.

Tex., Seguin—State Highway Comm., Austin, plans survey of roads in Guadalupe County: State Highway No. 123, Seguin to Stockdale and Karnes City, being extension of San Marcos-Seguin Highway; State Highway No. 46, east and west from Seguin to New Braunfels.

Tex., Tahoka—Lynn County plans expending \$700,000 on highways passing through county; \$300,000, on lateral roads, through and radiating from Wilson, New Home, Grassland, Draw, Newmoore, etc. See Financial News Columns.

Tex., Woodville—State Highway Comm., Austin, appropriated \$15,627 to improve 44 mi. Highway No. 40, and \$9677 for 29 mi. Highway No. 45, both across Tyler County, due to flood damage; J. B. Early, Maintenance Engr.; Gibb Gilchrist, State Highway Engr.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, received low bids, totaling about \$170,000, for 5 roads and 2 bridges: Scott County—4 mi. grade, drain, Route 106, from Sunbright, B. H. Crizer, Appalachia, Va.; Pulaski County—2 mi. Route 10, applying 47,000 gal. bit. material, Southern Asphalt Co., Mutual Bldg., Richmond; York County — 6.6 mi. gravel, Route 514, from point south of Yorktown, Porter and Montgomery, Norfolk; Clarke County—4.5 mi. rock asphalt, Route 37, Carpenter—Major Brothers, Clifton Forge; Lee County—8 mi. stone, Route 106, 13,000 cu. yd.; M. T. McArthur, Johnson City, Tenn.; Augusta County—concrete spans over Whiskey Creek, Route 39, T. J. Haynes, Salem. 5-30

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, receives bids July 2 for 3 roads and 4 bridges: Essex County—6.8 mi. grading, draining, Route 38, from Caret, 78,817 cu. yd. excavation, 11,242 lb. rein. steel; Tazewell County—1.6 mi. grading, draining, Route 112, from point north of Tazewell, 27,432 cu. yd. excavation; Lancaster County—3.2 mi. grading, draining, Route 37, from Whitestone, 26,426 cu. yd. excavation, also bridge over Carter's Creek, 42,955 F.B.M. creosoted timber; Wythe County—892 ft. bridge over New River, Route 15, four 120-ft. truss spans, one 400-ft. cantilever, 119,680 lb. rein. steel, 1,020,000 lb. struct. steel; Wise County—171-ft. bridge over Pound River, Route 121, 100-ft. arch and four 15-ft. conc. slab spans, 71,205 lb. rein. steel; Goochland County—112-ft. bridge over Tuckahoe Creek, Route 19, from point west of Richmond, three 35-ft. conc. beam spans, 34,050 lb. rein. steel.

Va., Danville—City plans expending \$40,000 to widen approach to Main St. Bridge; C. L. Scott, City Engr.

Va., Richmond—State Highway Comm., H. G. Shirley, Commr., Richmond, plans starting by July to grade, drain and resurface with Tarvia 12 mi. Hopewell-Richmond road to Petersburg-Richmond Highway.

W. Va., Charleston — Kanawha County plans expending \$300,000 to improve 6 roads in Big Sandy Dist.; 5 mi. grading, draining, hard surfacing, Thoroughfare road; 3 mi. Falling Rock road; 3½ mi. Jordan Creek road; 2½ mi. Buffalo Lock road; 2 mi. grading, draining, Wills Creek road; 2 mi. grading, draining Little Sandy Creek road. See Financial News Columns.

W. Va., Martinsburg—B. E. Gray, Div. Engr., State Road Comm., approved plans for Class A road from Martinsburg, Berkeley County, via Arden, Mills Gap, Tomahawk, Glengary, to Virginia line, at or near Capon Bridge.

W. Va., Moundsville—City, L. L. Stidger, Clk., receives bids June 24 for brick, block, conc., rock asphalt, asphaltic conc. paving, Parrott Ave.; resurface, brick paving First and Thirteenth St.

#### Contracts Awarded

Ala., Birmingham—City Comm. let contract to Wesco Co., \$7000, to pave Twenty-second St. viaduct, nearing completion; A. J. Hawkins, City Engr.

Ark., Hope—City let contract to C. S. Constance Co., Hope, \$130,000, for about 50 blocks paving in residence section.

Ark., West Helena—Hogan Construction Co., Home Insurance Bldg., Little Rock, has contract, \$24,353, to grade, drain, curb, gutter and pave 8 blocks of streets, in Street Improvement Dist. No. 1.

Ga., Hamilton — Davis Construction Co., has contract for 4 mi. paving, from Chipley, Harris County to Pine Mountain.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, let contracts for 11 roads and 4 bridges: Lafourche Parish—11,078 mi. reef shell, Thibodaux-St. Patrick Highway, W. Junkins, Natchez, Miss., \$92,956; Washington Parish—5.64 mi. sand, clay, gravel, Sun-Franklin Highway, Standard Highways Co., Hammond, \$46,166; Caldwell Parish—5.81 mi. washed gravel, Grayson-Dodson Highway, J. W. McKeithen, Grayson, \$36,754; 7.95 mi. same highway, J. W. McKeithen, \$86,131; 4.33 mi. Columbia-Winnsboro Highway, Meyer & Greenwald Construction Co., Bernhardt Bldg., Monroe, \$82,908; 4.85 mi. Columbia-Chatham Highway, W. O. McKeithen, Grayson, \$32,414; Allen Parish—9.327 mi. washed gravel, Kinder-Dequincy Highway, J. C. Leathers, Atlanta, La., \$40,502; Washington Parish—2.723 mi. sand, clay, gravel Richardson-Arcola Highway, Stafford Bros., Franklin, \$10,920; St. Martin Parish—7.2 mi. reef shell Breaux Bridge-Cecilia Highway, Picard Construction Co., Inc., Hicks Bldg., New Orleans, \$23,581.

In Union Parish—7,098 mi. iron ore and crushed rock, Harvey & Jones, Jonesboro, \$54,288; Ouachita Parish — 2.6 mi. washed gravel, Perryville - Collinston Highway, Meyer-Greenwald Construction Co., \$18,509; St. Landry Parish—steel bridge with combination trestle approach, Livonia-Opelousas Highway, B. W. Clopton, Elba, \$71,525; Natchitoches Parish—steel bridge with combination trestle approach, over Bayou Pierre, Natchitoches-Shreveport Highway, Moore Bros., Inc., Westwego, New Orleans, \$45,927; East Feliciana Parish — timber bridge and earth approaches, Slaughter-Mississippi Highway, Young and Debritton, Baton Rouge, \$10,715; La Salle and Winn Parishes—steel bridge with timber trestle approach, Tullos-Winnfield Highway, Gannett, Seely and Fleming, Mansfield, \$18,749; W. H. Norckauer, State Highway Engr. 5-9

La., Bastrop — Morehouse Parish Police Jury, J. Lester White, Highway Engr., let contract to L. W. Cox, Bastrop, for 1 mi.

20-ft. earth road bed in Second and Ninth Wards northeast of Bastrop. 5-16

La., Port Allen—Town, Mayor and Bd. of Aldermen, let contract to L. J. Richard Co., Arlington Ave., Baton Rouge, for 3,300 sq. yd. conc. sidewalks and cross walks, necessary drains; L. J. Voorheis, Consult. Engr., Baton Rouge.

Md., Baltimore—P. Flanigan & Sons, Inc., Harford road and B. & O. R. R., has contract to pave Key Highway, from McComas to Clement St.; Nathan L. Smith, Highways Engr.

Miss., Aberdeen—Monroe County Bd. of Supvrs. let contract to W. C. Howton Contracting Co., 1007 37th Place, N., Birmingham, Ala., \$120,044, for .719 mi. State trunk road and bridges, between Aberdeen and Columbus. 5-23

Miss., Hattiesburg—City Comm. let contracts at about \$280,000 for street paving: To E. A. Finch Construction Co., Citizens Bk. Bldg., Hattiesburg, to pave 6 streets with sheet asphalt on conc. base, rein. conc. sand rock, and for sewer and water connections; to Southern Paving Construction Co., Volunteer Life Bldg., Chattanooga, Tenn., to pave 6 streets with conc., sheet asphalt; to Cobb Brothers, Meridian, to pave 3 streets with brick; to Soctay Paving Co., Inc., Provident Bldg., Chattanooga, Tenn., and Fountain & Myers Construction Co., to pave 2 streets with brick. 5-16

Miss., Holly Spring—Marshall County Bd. of Supvrs. let contract to Standard Highway Co., Hammond, La., for 154,000 cu. yd. grading, on about 20 mi. Barton-Bayhalia road; to Choctaw Culvert Co., Memphis, Tenn., for 1,000 lin. ft. corrugated culverts.

Miss., Holly Springs—City, Mayor and Bd. of Aldermen, let contract to J. P. Rowan, Holly Springs, \$16,743, for 1,100 cu. yd. excavation, 6,850 sq. yd. paving, 400 sq. yd. sidewalks, 4,050 lin. ft. curb and gutter, necessary drainage; C. B. Smith, City Clk. 5-23

Mo., Joplin—City let contract to Granite Bituminous Paving Co., \$1.94 per sq. yd., to pave 24-ft. strip in center of Joplin St., Sixth to Tenth; at \$1.94 per sq. yd. to pave Wall St., Third to B; to V. E. Koch, 417½ Joplin St., for curbs and gutters, Pennsylvania Ave.

Miss., McComb—City, B. E. Butler, Clk., let contract to Merrill Engineering Co., Lamar Bldg., Jackson, \$25,500, for 9,920 sq. yd. paving, storm drainage, etc.; Henry A. Mentz & Co., Engrs., Hammond La. and McComb. 5-23

Mo., Springfield—City, C. A. Dickerson, Clk., let contract to E. V. Koch, 417½ Joplin St., Joplin, \$5,523, repave Boonville Ave.; Garrett Construction Co., 211½ East Commercial St., to pave Weller Ave. 5-20

N. C., Greensboro—Guilford County Comr., D. L. Donnell, Mgr., let contracts for 14 roads, totaling \$167,000: to R. G. Lassiter & Co., Citizens Bk. Bldg., to surface: .94 mi. Phillips and Elwell Ave.; .33 mi. Lovett Ave.; 1.9 mi. from Pomona to State Route 10; to grade: 3.38 mi. Hayworth Springs to Kirkman's Crossroads; 4.77 mi. Oak Ridge road, Guilford College to Smith's service station; 6.75 mi. Huffine Mill road; 6.05 mi. Jamestown to Guilford College; 1.46 mi. Guilford College to intersection of road south to State Highway No. 60; 1.83 mi. Gibsonville to State Route 100; to Welker Brothers and W. L. Peacock to prepare base on 4.61 mi. Kimesville road; 1.35 mi. from Summerfield to intersection with road of Summerfield; 2.64 mi. Horseshoe road; C. O. Lowe County Engr. 5-30

N. C., Warrenton—State Highway Comm., John D. Waldrop, Acting Highway Engr., Raleigh, let contract to Powell Paving Co., Winston-Salem, to repave with sheet asphalt 4½ mi. Route 48, between Norlina and Warrenton, Warren County.

S. C., Greenville—City Council let contract to Greenville Paving Co., \$18,671 for about 10,000 sq. yd. 6-in. paving on 4 streets, avenues, etc.; S. R. Rambo, City Engr.

Okl., Cordell—Washita County Comr., let contract to J. A. Mitchell, Sentinel, \$11,537, for conc. overflow road west of Cordell.

Okl., Lawton—City let contract to Connally Brothers, El Reno, \$19,076, to widen 6 blocks Ft. Sill Blvd.: Curb, gutter, 6-ft. conc. slab on either side present paving; O. E. Noble, Engr. 5-23

Okl., Oklahoma City—City, E. M. Fry, Mgr., let contract to M. A. Swatek & Co., 519½ W. Main St., \$12,730, to pave in South Court; to Tom L. Green, 419 W. 21st St., \$10,455, for paving in Capitol Courts Addition and Scott's Addition; W. W. Small, City Engr.

Tennessee—Dept. of Highways and Public Works, R. H. Baker, Cmmr., Nashville, let contracts for 6 roads and 16 bridges, totaling \$832,926: Jackson County—5.3 mi. grading, draining, from point east of Gainesboro to Overton County line, Marion Construction Co., Adams, Tenn., \$48,862; Knox County—7.41 mi. grading, draining, Anderson County line to Knoxville, Chandler Brothers, Virginia, Va., \$104,431; Haywood County—12.39 mi. Portland cement, Brownsville to Lauderdale County line, Municipal Paving & Construction Co., Independent Bldg., Nashville, \$245,015; Henry County—11.27 mi. grading, draining, from Weakley County line to Paris, Gregory-Chandler Co., Dickens, Tenn., \$97,400; 10 bridges to M. C. Merrills, Belleville, Ill., \$43,392; Knox-Sevier-Jefferson Counties—6.8 mi. Portland cement, Trenterville to point near Jefferson County line, Municipal Paving & Construction Co., \$134,422; Shelby County—overhead and approaches over industrial tracks of I. C. R. R., Memphis, F. V. Ragsdale Co., Dermon Bldg., Memphis, \$44,960; Obion County—conc. overhead and approaches over I. C. R. R. at Rives, Peterson & Earnhart, Montgomery, Ala., \$32,642; Robertson County—conc. overhead and approaches, over L. & N. R. R., Adams, to Hagen & Bagley, Fayetteville, \$13,796; Henry County—conc. overhead and approaches over L. & N. R. R., near Paris, R. E. Martin, Pulaski, \$24,122; Madison County—conc. overhead and approaches over G. M. & N. R. R., south of Jacson, Hagen & Bagley, \$16,325; Crockett County—conc. overhead and approaches over G. M. & N. R. R., at Bells, W. A. Patton & Co., South Pittsburg, \$27,635; Davidson County—grading, draining, from Williamson County line to Pasque, Chandler Bros., \$71,422. 5-16

Tex., Galveston—Galveston County, E. B. Holman, County Judge, let contract to H. J. Hetkes, Security Bldg., for 2 mi. surfacing S road, from Sixty-first westward. 4-16

Tex., Waco—McLennan County Comr., R. R. Standford, County Judge, let contract totaling about \$50,000 to grade 46.53 mi. roads: To Bucy & Childs, Rising Star, 5.95 mi. China Spring, Route 7; Huse Popejoy, Mexia, 12.72 mi.; Moody, Route 2; A. B. Sparks, 225 N. Brighton St., 5.96 mi. Reisel, Route 3; Huse Popejoy—21.91 mi., Elm Mott, Route 1.

Va., Quantico—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract to G. S. Luck & Son, Inc., Richmond, \$29,000, for paving at U. S. Marine Barracks, Quantico.

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, let contract to Anderson & Maynard, Richmond, for 2000 sq. yd. 6-in. one course paving. 5-20

W. Va., Charleston—Kanawha County Court let contract to W. J. Weakland, Citizens Natl. Bk. Bldg., \$5540 to grade and drain 3000 ft. Loudon Heights-Coal Hollow road.

W. Va., Lewisburg—Greenbrier County Court, Paul C. Hogsett, Clk., plans expending \$145,000 to improve 8 roads: grade, drain and pave with broken stone, Blue Sulphur Pike; Muddy Creek Mountain road; Hufnagle-Davis scales road; Old Fort Spring, or Davis-Stuart road; road leading from Alderson toward Stuart School; Roncerverte-Rockland road; Walnut Hills road; road leading from Roncerverte toward Bethel Church. See Financia, News Columns.

W. Va., Parkersburg—City let contract to D. A. Criss, East Seventh St., to pave Liberty St.

### Sewer Construction

**Sewer construction in LAND DEVELOPMENT** projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Fla., Jacksonville—City votes July 25 on sewer bonds. See Financial News Columns.

Fla., Miami—City will receive bids about July 22 for sewer lines, Shenandoah and Bryan Park and 6th and 65th Sts.

Fla., Palm Beach—City receiving bids June 24 for sanitary sewers and pumping plant; E. H. Allen, Engr., 307 Gardenia St., West Palm Beach; Central Station Equipment Co., Seybold Bldg., Miami; W. S. Lockman, 628 30th St., Schmidt & Weber, H. J. Halpin, Dudley-Murphy Construction Co., Waggoner Bldg. and Powers Construction Co., Harvey Bldg., estimating.

Ky., Owensboro—Thomas D. Nolan, 14101 Plymouth Ave., Detroit, Mich., has contract for sewerage system; cost \$1,000,000; Consoer, Older & Quinlan, Engrs., 203 W. Wacker Drive, Chicago. 5-2

La., Houma—City, Edward Wright, Mayor, plans installing \$200,000 sewer system; votes July 13 on bond issue to include disposal plant.

Md., Baltimore—Bd. of Awards receives bids June 25 for sanitary sewers and storm drains. See Want Section—Bids Asked.

Md., Overlea—Baltimore County Comr., Towson, receives bids July 1 for sewers. See Want Section Bids Asked.

Miss., Goodman—H. A. Forrest, 6319 Catina St., New Orleans, La., has contract for sewer system; Boggs & Clark, Engrs. 4-18

Miss., Greenville—See Water Works.

Miss., Houston—City receives bids July 5 for sanitary sewer. See Want Section—Bids Asked.

Mo., Joplin—V. E. Koch, 419 Joplin, has contract for Roanoke Crest joint sewers; Fred Brigg, 2222 Joplin, for public sewer.

Mo., Vandalia—City voted \$41,000 sewer bonds.

Okla., Hammon—See Water Works.

Okla., Oklahoma City—Earl W. Baker & Co., Perrine Bldg., has contract for Higgins Heights storm sewers, cost \$98,795.

Okla., Oklahoma City—Koller Construction Co., Trades Natl. Bk. Bldg., reported, has contract for 2400 ft. 8-in. sanitary lateral sewers in Markland Heights.

Okla., Seminole—City let contract to Sherman Machine and Iron Works, 18 E. Main St., Oklahoma City, for sewers in Dist. B; R. H. Chase, for sewers in Paving Dist. No. 19.

Tenn., Nashville—Bd. of Public Works soon let contract for extension water mains and sewers.

Tenn., Nashville—W. J. Bryson Paving Co., Cotton States Bldg., has contract for section 1 and 2 of Whitland-Sunsey Park sewer; bids for section 3 and 4 not let.

Tex., Dallas—W. G. Cullum & Co., Central Bk. Bldg., has contract for sanitary sewer in Elm St., Harwood to Ervy St.

Tex., Eden—City considering installation of sewer system.

Tex., Edna—See Water Works.

Tex., Houston—See Roads, Streets, Paving.

Tex., Jefferson—Southwestern Sewerage Co., M. R. Diggs, improve sewer system.

Tex., Midland—Panhandle Construction Co., Lubbock, has contract for \$175,000 sewerage disposal plant and mains. 5-30

Tex., Pasadena—City contemplates voting soon on \$150,000 sewer and water bonds. 6-13

Tex., San Antonio—City, Paul Steffler, Street Comr., having estimates prepared for sewage disposal plant at Salado Creek.

Va., Fairfax—See Water Works.

Va., Va., Huntington—City considering either construction of sanitary sewer emptying into Guyandotte River or completion of branch of proposed Walnut Hill system.

### Telephone Systems

Ala., Dothan—McNeill Battery Station applied to Federal Radio Comn. for permission to construct broadcasting station.

Ark., Siloam Springs—John Brown Schools applied to Federal Radio Comn., for permit to establish broadcasting station.

Fla., Clewiston—Inter-County Telephone Co. immediately erect exchange, Bond St.; 1 story; provide living quarters for operator.

Ga., Atlanta—Farrell Heating & Plumbing Co., 248 Ivy St., N. E., has contract for plumbing and heating office building for Southern Bell Telephone and Telegraph Co., F. M. Craft, Ch. Engr.; Barge-Thompson Co., Gen. Contr., 136 Ellis St., N. E.; Marye, Alger & Vinour, Archt., Walton Bldg. 4-25

Ga., St. Simons Island—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., acquired Sea Island Utilities Co.'s telephone exchange at Warsaw.

Ky., Warsaw—Citizens Telephone Co. of Kentucky, Inc., Ulle Howard, Cincinnati, Ohio, subsidiary of Southern Bell Telephone & Telegraph Co., acquired Warsaw Telephone Co., L. N. Bradley; obtained Gallatin County and Warsaw city franchise; establish exchanges at Warsaw, Glencoe and Sparta.

Md., Baltimore—Chesapeake & Potomac Telephone Companies, A. E. Berry, Pres., 108 E. Lexington St. expend approx. \$78,000,000 in Dist. of Columbia, Maryland, Virginia and West Virginia for additions and

improvements during next 5 years; program includes \$8,000,000, land and buildings; \$17,255,000, central office equipment; \$24,457,000, exchange plant; \$20,508,000, equipment on subscribers' premises; erect additions to 2 buildings, Washington; 4 new buildings and addition to 2 buildings, Baltimore, and 3 new buildings and 3 additions in other Maryland cities; 1 new building and 1 addition, Richmond, and 1 new building and 2 additions in other Virginia cities; 5 new buildings and 1 addition, West Virginia; expand approx. \$6,620,000 for additions and improvements of toll line plant, involving erection of 140,000 poles, 370 mi. stormproof cable and approx. 15,000 mi. copper wire; install 1500 telephone repeaters.

Okla., Stillwater—Southwestern Bell Telephone Co., C. W. Mier, Oklahoma City, call for bids about July 1, telephone building; 2-story, brick, rein. conc., 50x35 ft.

Tex., Cisco—Following have sub-contracts for telephone building for Southwestern Bell Telephone Co., C. E. Overbeck, Bldg. Engr., Dallas; plumbing and heating, Korioth Plumbing & Heating Co., Sherman; elec. wiring, L. E. Hudgens, Wichita Falls; R. F. Ball Construction Co., 806½ Taylor St., Gen. Contr., Fort Worth. 6-13

Tex., Dallas—Southwestern Bell Telephone Co., B. D. Hull, Ch. Engr., Dallas, contemplating receiving bids in September or October for telephone building; 1-story and basement, brick, rein. conc.

Va., Richmond—Chesapeake & Potomac Telephone Co. of Virginia, John A. Remon, Gen. Mgr., reported, announced expend over \$20,000,000 for additions and improvements to telephone system in state in next 5 years; \$6,250,000, local exchanges, including pole lines, wire, cable, etc.; \$4,000,000 station equipment; \$4,000,000, additions and improvements and toll central office equipment; \$2,000,000, increasing toll facilities, including long distance lines, poles, wire and cable; \$1,500,000, office buildings and additions.

Va., Fort Myer—Constructing Quartermaster, Washington, D. C., let contract to Bahen & Wright, 1223 N. Y. Ave., N. W., Washington, D. C., at \$27,349 for radio building. 6-13

W. Va., Elkins—Public Telephone Co. granted franchise by Randolph County Court to erect poles and wires along county road and engage generally in telephone business.

### Textile Mills

Ala., Brewton—Brewton Silk Mills Corp., reported, let contract to E. R. Chambliss, Brewton, for plant; brick walls; comp. roofing; plant will be operated by Rieback & Mandell, Inc., 40 E. 34th St., New York.

Ala., Eufaula—Eufaula Silk Mills, reported, acquired by S. A. and James Foy.

Ala., Mobile—Industrial Committee of Chamber of Commerce, Mark Lyons, Chrm., reported, negotiating with Pennsylvania capitalists for silk mill.

Ala., Opelika—Pepperell Mfg. Co., let contract to Batson-Cook, West Point, Ga., for mill unit of 20,000 spindles and 500 looms and for 60 operative dwellings; manufacture print cloth to be finished at present in mill at Lewiston, Maine. 5-23

Ky., Mayfield—Mayfield Woolen Mills, capital \$600,000, incorporated; O. R. Allen, O. T. George.

Md., Hagerstown—Ellis Hosiery Co., Reading, Pa., reported, erect hosiery mill.

N. C., Asheboro—Cetwick Silk Mills, Inc., install additional machinery.

N. C., Burlington—Sir Walter Hosiery Mills; capital \$100,000, incorporated; R. K. and N. B. Moore.

N. C., Fayetteville—Puritan Weaving Co., capital \$200,000, incorporated; J. Spencer Love, Burlington; L. H. Sellars, 915 N. Elm St., Greensboro; establish plant for manufacture fancy colored cloths and novelty goods. 6-13

N. C., Hickory—Magnolia Knitting Co., capital \$20,000, incorporated; W. J. Shuford, Walker Lyerly.

N. C., Lincolnton—Lockwood Greene Engineers, Inc., 100 E. 42nd St., New York and Charlotte, preparing plans for small addition for terry and opaline to poag Mills Corp. (formerly Anderson Mills); 50x93 ft.; steel frame; mill construction; construction by owners.

N. C., Yadkin—Potter and Shackelford, Inc., Allen Bldg., Greenville, S. C., Gen. Contr., for North Carolina Finishing Co.'s plant, let following sub-contracts: Roofing and sheet metal, Ramsur-Lee Co., 353 McBee Ave., Greenville, S. C.; plumbing, Edens and Moon, 204 Pendleton St., Greenville, S. C.; mastic floors, Ralph V. Rulon, Philadelphia, Pa.; struc. steel, McClintic-Marshall Co., Pittsburgh, Pa.; rein. steel, Southern G.-F. Co., 263 Decatur St., S. E., Atlanta, Ga.; steel sash, Truscon Steel Co., Youngstown, O.; lumber, Bright-Brooks Lumber Co., Builders Bldg., Charlotte, N. C.; J. E. Sirrine & Co., Engrs., Greenville, S. C. 5-16

S. C., Rock Hill—Brown-Harry Co., Inc., 237 E. Main St., Gastonia, N. C., Gen. Contr. for new plant of Rock Hill Printing & Finishing Co., let following sub-contracts: rein. steel, Kalman Steel Co., Candler Bldg., Atlanta, Ga.; glazing, Rippy Bros., Blacksburg; plumbing, Waldrup Plumbing & Heating Co., Rock Hill; roofing, Frank B. Ingold, Hickory, N. C.; struc. steel, McClintic-Marshall Co., Charlotte, N. C.; Lockwood Greene Engineers, Inc., Engrs., Spartanburg. 6-6

S. C., Spartanburg—Babcock & Wilcox Co., 85 Liberty St., New York, has contract for furnishing two 400 h.p. boilers for power plant at Fair Forest Finishing Co.'s mill; Lile Stoker Co., Worcester, Mass., for 2 stokers; Lockwood Greene Engineers, Inc., Engrs., Spartanburg. 5-23

Tenn., Chattanooga—Everwear Hosiery Co., Milwaukee, Wis., reported, establish hosiery plant; has secured portion of building 735-739 E. Eleventh St., for distributing warehouse.

Va., Hopewell—American Chatillon Corp., 393 Seventh Ave., New York, advises regarding acetate mill to be erected by company in conjunction with Tubize Artificial Silk Co. of America, 2 Park Ave., New York: No definite plans are, as yet, under way regarding this plant, neither site nor type of construction having been decided upon; will probably be another month or six weeks before definite plans will be evolved. 5-30

Va., Rocky Mount—Angle Silk Mills, Inc., capital \$250,000, chartered; N. P. Angle.

Va., Narrows—Cavalier Hosiery Mills acquired building formerly occupied by Narrows Extract Works; will remodel for hosiery mill.

Va., Suffolk—Bell Hosiery Mills, Inc., increased capital \$140,000 to \$300,000.

### Water Works

**Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.**

Ala., Montgomery—City may install water mains, Highland Gardens, subdivision.

Fla., Hollywood—City rejected all bids for water works improvements; Gilbert C. White Co., Consrt. Engr., 406½ W. Main St., Durham, N. C.

Ga., Macon—Bd. of Water Commrs., has water works extension plans from Fuller & McClintock, 170 Broadway, New York, Engrs.; work includes expenditure of \$45,000.

Md., Baltimore—Bd. of Awards receive bids June 18 for excavating trenches and laying water mains in McComas St. See Want Section—Bids Asked.

Md., Baltimore—Bd. of Awards receives bids June 25 for excavating trenches and laying mains in York Rd. See Want Section—Bids Asked.

Md., Baltimore—Public Improvement Commission started work on engineering features of proposed Prettyboy Dam, in Baltimore County, 8000 acres, along Upper Gunpowder River and Prettyboy Creek; lake created will contain 26,000,000 gal. of water; water to flow into Lock Raven by gravity through bed of Gunpowder River; dam will be 120 ft. high; cost about 3,000,000, a portion of the \$10,000,000 water supply improvements decided upon in 1925; E. G. Rost, Water Engr. 12-3-25

Miss., Greenville—City votes July 10 on \$125,000 sewerage and water improvement bonds. 5-23

Miss., Houston—City, Ashton Toomer, Mayor, receives bids July 5 for water works improvements. See Want Section—Bids Asked.

Miss., Macon—City receives bids July 2 for deep well centrifugal pump and vertical motor, horizontal centrifugal domestic pump and motor to deliver 500 gal. water per minute; 550 ft. of c. i., Class B, water main, fire hydrants.

Miss., Mendenhall—Town considering installation of water works; may vote on \$30,000 bonds.

Miss., Tchula—Town let following contracts for water works system: Batson & Reed, Wiggins, for pump house, conc. reservoir, hauling, laying and installing monocoat pipe; Dixie Mill Supply Co., 901 Tchula pitoula St., New Orleans, for hydrants and valves and monocoat pipe; Chicago Bridge & Iron Works, Magnolia Bldg., Dallas, Tex., for 100,000 gal. elevated tank; Fairbanks, Morse & Co., 1000 St. Charles St., New Orleans, for electric pumps; A. M. Lockett & Co., Ltd., Queen and Crescent Bldg., New Orleans, for gasoline driven pump; Culley, O'Brien Engineering Co., Inc., Jackson, Miss., Consrt. Engrs. 5-23

Miss., Vaiden—Town let following contract for water works: B. E. Walker Construction Co., Forest, for 10,000 gal. tank, conc. reservoir, hauling and installing pipe; Fairbanks, Morse & Co., Chicago, Ill., for pumps; McWane Cast Iron Pipe Co., 3700 11th Ave., N., Birmingham, Ala., for pipe; Culley-O'Brien Engineering Co., Inc., Jackson, Consrt. Engrs. 5-23

Mo., Hermann—City receives bids June 28 for furnishing materials and constructing conc. reservoir complete. See Want Section—Bids Asked.

Okla., Atoka—City votes soon on \$25,000 water works bonds.

Okla., Carnegie—City voted \$50,000 water works bonds.

Okla., Hammon—City voted \$27,500 water works bonds, \$25,000 sewer bonds.

Tenn., Jonesboro—City votes June 20 on water works bonds. See Financial News Columns.

Tenn., Memphis—United States Cast Iron Pipe Co., American Tr. Natl. Bk. Bldg., Birmingham, Ala., has contract for c. i. pipe.

Tex., Coleman—City votes July 2 on \$40,000 standpipe and filtration plant bonds. See Financial News Columns.

Tex., Goose Creek—City considering bond issue for sewer extension, disposal plant, storm sewers and park. See Financial News Columns.

Tex., Dallas—Frank Parrott & Co., American Exch. Bk. Bldg., Dallas, Gen. Contr. for central pumping plant for water works, let contract to Wm. M. Pierce, Sales Rep. for American Well Works, 701 Elm St., for three 8-in. pumps, capacity 2,500,000 gal. daily; operated by 40 h. p. motors. 5-2

Tex., Edna—City plans water works and sewer; may vote on bonds.

Tex., Harlingen—Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, erect 3 water towers; contract for one let to R. E. Ewing, Harlingen; cost \$10,000.

Tex., Pasadena—See Sewer Construction.

Tex., Uvalde—City let contract to A. G. David, Dallas, for water main extension.

Tex., Rio Grande—Central Power and Light Co., Frost Bldg., San Antonio, receives bids June 26 for filtration plant, intake pumping station and pumping equipment; brick, conc. and comp. roof; electric wiring; cost \$35,000. 6-6

Va., Fairfax—City plans installing water and sewers; may vote on \$100,000 bonds; Edgar Littleton, Chrmn.

Va., Newport News—City authorized P. W. Hiden, Chrmn. Water Works Comm., to purchase 11,100 ft. of pipe to replace wood stave line between city and Morrison.

W. Va., Charleston—Kanawha Valley Water Co., Nitro, applied to Kanawha County Court for 50 yr. franchise for laying line over county road between present eastern limits of Marmet and Slaughters creek and between Great Kanawha River and line parallel thereto.

W. Va., Welch—West Virginia Water Service Co., subsidiary of Federal Water Service Corp., 27 Williams St., New York, let contract to Public Works Engineering Corp., 40 Exchange Place, New York, for filtration, aeration and sedimentation plant; cost \$12,500; install two 10' vertical filters, 6 aerator nozzles, aerator pan and 2 dry feed machines. See Want Section—Building Materials, Machinery and Supplies. 6-13

**Woodworking Plants**

**Ark.**, Kelso—Ben Cook acquired Parker Bros. stave mill,  $\frac{1}{2}$  mi. northeast of city, on East and West Hwy.

**Md.**, Baltimore—J. M. Reiser & Sons, J. M. Reiser, 620 Portland St., erect branch keg and barrel plant during summer, Chesapeake Ave. and Fifth St., Brooklyn; 1-story, 100 x 100 ft.

**Md.**, Baltimore—C. O. Wurzburg & Sons, Annapolis Ave. and Western Maryland Ry., erecting addition to mill and cabinet work plant; 40x80 ft.

**Miss.**, Crystal Springs—Planters Package Co. considering rebuilding burned plant.

**FIRE DAMAGE**

**Ala.**, Tuscaloosa—Tuscaloosa Mattress Co.'s plant, 18th St. and 26th Ave.; William Jones, owner.

**Ga.**, Thomaston—W. C. Day's garage.

**Ky.**, Mayfield—Z. L. Galloway's residence.

**Md.**, Mount Savage—Residence and barn of Jas. R. Rinker, Mountain Valley; loss \$12,000.

**Md.**, Salisbury—Feldman Brothers' storage warehouses.

**N. C.**, Raleigh—Mansion Park Hotel; loss \$20,000.

**N. C.**, Shelby—Mrs. Esther McBrayer's building, occupied by Ingram-Liles Co.

**S. C.**, Greenwood—Mrs. Seymour Hollingsworth's residence, Monument St.

**Tenn.**, Knoxville—Building, 111 W. Vine Ave., owned by Sweson Estate, occupied by B. G. Peters' dry goods store.

**Tex.**, Brownwood—McCullough Wholesale Grocery plant; loss \$75,000.

**Tex.**, Huntington—Hubbard's Grocery Store, Dickerson's Cafe, Bird's Grocery Store; loss \$15,000.

**Tex.**, Humble—Humble Motor Co.'s shop; loss \$25,000.

**Tex.**, Sweetwater—Archer Bldg.

**Va.**, Front Royal—Valley View filling station, 6 mi. from city, Winchester Hwy.; H. E. Martin, owner.

**Va.**, McClean—Veal & Walters' garage; Sanitary Grocery Store; loss \$10,000.

**Va.**, Charlottesville—H. M. Gleason & Co.'s warehouse; loss \$35,000.

**W. Va.**, Princeton—Princeton Lumber Co.'s planing mill, East Princeton; C. H. Snider and C. H. Bolton, owners.

**Miss.**, Pass Christian—St. Paul R. C. Church erect brick, stone trim and rein. conc. bldg.; 2 stories; 7 classrooms for St. Joseph's Academy; John Collins, Archt., Biloxi; probably soon call for bids.

**Mo.**, Kirkwood, St. Louis—First Presbyterian Church remodel bldg. and erect addition; brick, 2 stories and basement; Wm. J. Beattie and R. P. Wallace, Asso. Archts., Frisco Bldg.; bids in.

**N. C.**, Pinehurst—I. C. Sledge is chairman of bldg. comn. to erect Pinehurst Community Church; Colonial type, \$70,000; Harry Barton, Archt., Jefferson Bldg., Greensboro.

**Okla.**, Duncan—Protestant Episcopal Church, Rev. Kepell W. Hill, Pastor, Chickasha, erect building.

**Okla.**, Picher—First Methodist Church, Rev. Geo. O. Hunter, Pastor, erect building.

**Tenn.**, Germantown—Methodist Church, J. H. Moorer, Chmn., Bldg. Comm., Forrest Hill, erect \$10,000 bldg.; brick, 1 story, about 39x39 ft., wood floors, comp. roof; basement in; Anker F. Hansen, Archt., Shrine Bldg., Memphis; bids in.

**Tex.**, Cleburne—Christian Church, J. A. Williams, Chmn., Bldg. Comm., erect Sunday school unit; brick, 2 stories, \$25,000; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth; bds June 24.

**Tex.**, Galveston—First Baptist Church, Rev. H. L. Pickett, Pastor, plans to remodel auditorium and erect 3-story Sunday school.

**Tex.**, Houston—Central Baptist Church having plans drawn by Sam H. Dixon, Jr., Archt., Electric Bldg., for \$65,000 bldg., Dumble St. and Texas Ave.; hollow tile and brick, stone trim; plans completed about July 1; will not take bids.

**Tex.**, Houston—First Christian Church, R. W. Jenkins, Chmn., Bldg. Comm., may remodel main auditorium and erect 5-story Sunday school, Main St. and Bell Ave.; previously noted having final plans drawn for 4-story and basement bldg. with foundation for 12 stories; Jas. Ruskin Bailey, Archt., Public Natl. Bk. Bldg. 1-17

**Tex.**, Itasca—Presbyterian Church, Sidney Files, Chmn., Bldg. Comm., receives bids June 25 for Sunday school; brick, 2 stories and basement, 50x88 ft.; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth; plans for 47x75-ft. auditorium; total \$55,000.

**Tex.**, New Braunfels—Protestant Episcopal Church, Wm. Hoelese, Chmn., Bldg. Comm., erect face brick and cast stone and hollow tile and plaster bldg.; 1 story, basement, and balcony, about 68x87 ft., steel truss roof, steel sash; Jeremiah Schmidt, Archt.

**Tex.**, San Antonio—Denver Heights Church of Christ has low bid at \$10,324 from Lewis Dabney, 1112 Pasadena St., to remodel bldg. and construct new rein. conc. basement; Beverly W. Spillman & Beverly W. Spillman, Jr., Archts.-Engrs., Alamo Bk. Bldg.

**Tex.**, San Saba—Church of Christ, E. B. House, Chmn., Bldg. Comm., erect brick and tile bldg., Wallace St.; sent 750.

**Va.**, Clarendon—Methodist Episcopal Church, South, Harry C. Shepherd, Chmn., Bldg. Comm., having tentative plans drawn by H. M. King, Architectural Sec., Bd. of Extension of M. E. South, South, Louisville, Ky., for \$80,000 bldg., Taylor and Clarendon Aves.

**W. Va.**, Martinsburg—Bash Yonkev Congregation, Theo. Birnbach, member, plans synagogue.

**City and County**

**Ala.**, Hamilton—Marion County Bd. of Revenue receiving bids, to be opened about June 25, for courthouse remodeling; \$20,000; H. D. Breeding, Archt., Birmingham.

**Ark.**, Magnolia—Columbia County, Emmett Atkinson, County Judge, Box 33, rejected bids for fireproof jail; call new bids; rein. conc., face brick veneer, 2 stories; Arthur A. Brown, Archt., Mercantile Bank Bldg., Dallas, Tex.

**Ark.**, Morrilton—Conway County Bd. of Comms., T. J. Moore, Judge, receives bids July 12 for courthouse; \$117,000; Frank W. Gibb, Archt., Gazette Bldg., Little Rock. 5-23

**Ark.**, Murfreesboro—Pike County W. B. Horton, Judge, considers erecting \$50,000 to \$75,000 courthouse; brick and conc., 2 or 3 stories.

**Ga.**, Waycross—Brantley County Comsn. vote on \$35,000 courthouse bonds.

**Miss.**, Clarksdale—Board of Mayor and Comms., and Bd. of Trustees of Carnegie Public Library receive bids July 2 for addition to library; also bids for plumbing, heating, wiring, furniture and furnishings; plans from Hunker & Cairns, Archts., Court Square Bldg., Memphis, Tenn., and from Librarian.

**BUILDING NEWS****BUILDINGS PROPOSED****Association and Fraternal**

**Ark.**, Gravette—Ancient Free and Accepted Masons may erect temple.

**Miss.**, Natchez—Natchez Council, K of C, purchased 2-story brick bldg.; remodel for lodge quarters.

**Okla.**, Ardmore—Ancient Free and Accepted Masons probably let contract in several weeks for \$300,000 temple, W. Broadway; 5 stories; work probably start by Aug. 1.

**Tenn.**, Nashville—Independent Order of Odd Fellows, Wharton J. Allen, Sec., 531 Church St., repair 4-story and basement bldg. damaged by fire; bids in.

**Tex.**, Dallas—Young Men's Christian Assn., W. A. Scott, Sec., bids July 10 for Moorland Branch for negroes, Flora and Boll Sts.; \$130,000, stone, terra cotta, hollow tile and rein. conc., 4 stories and part basement, about 90x100 ft., cement, terrazzo and linoleum floors, metal lath and plaster, marble and tile work, steel windows, tile roof; separate bids for wiring, plumbing, heating, elevator and kitchen equipment; Bryan & Sharp, Archts., Construction Indus. Bldg. 2-28

**Tex.**, El Paso—Fraternal Order of Eagles plans \$20,000 clubhouse.

**Tex.**, El Paso—Benevolent Protective Order of Elks, N. Campbell St. and Myrtle Ave., Maurice Schwartz, Chmn., Bldg. Comm., probably have plans ready about Aug. 1 for \$300,000 clubhouse; fireproof, rein. conc., brick and terra cotta, 7 stories; Braunto & McGhee, Archts., First Natl. Bk. Bldg. 1-24

**Bank and Office**

**Ark.**, Gulon—Izard County Bank, Batesville, erect stone and native marble bldg. to replace structure destroyed by tornado; plans drawn.

**Miss.**, Byhalia—Citizens Bank & Trust Co. considers remodeling building.

**Miss.**, Picayune—Pearl River County Bank erect \$18,000 bldg.; rein. conc., brick, stone trim, east stone front, 1 story, 30x75 ft., rein. conc. foundation, built-up comp. roof, marble and tile work; N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson; about ready for bids.

**Mo.**, Springfield—Springfield Livestock Commission Exchange, W. L. Rush, Pres., Glenstone and Mill Sts., erect \$20,000 office bldg., Dysart Ave. and St. Louis St.; brick and conc., 2 stories and basement, 50x100 ft.

**Okla.**, Ada—Ross & Ferguson drawing plans for 3-story addition to American Building. 6-13

**Tex.**, Childress—First National Bank and F. & M. Trust Co., J. M. Crews, Active Vice Pres., plans 5-story bank and office

bldg.; \$300,000, fireproof, conc. and brick, vault and safety deposit boxes in basement; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth.

**Tex.**, Houston—B. N. Garrett, Electric Bldg., remodel Dorrance Bldg., 114½ Bergendahl St., for offices; \$30,000.

**Tex.**, Mission—First National Bank, Homer L. Smith, Vice-Pres., erect semi-fireproof bldg.; hollow tile and stucco or face brick, 1 and 2 stories, 50x140 ft., wood and tile floors; bank, store and post office on first floor, offices above; Decker & Tanner and Robt. L. Vogler, Asso. Archts.

**Churches**

**Ala.**, Birmingham—Forty-fifth St. Baptist Church, 12th Ave. and 45th St., North, having plans by W. A. Rayfield & Co., Archts., P. O. Drawer 649, for brick and hollow tile bldg.; 2 stories, 50 x 110 ft., pine floors, conc. foundation, asbestos roof; furnishings, equipment, etc., \$5000; open bids in Aug.

**Ark.**, Subiaco—Roman Catholic Church, Rev. Abbott Edward Burgett, Pastor, erect Romanesque type bldg.; crypt to be erected in Summer; Kauzor Bros., Archts., Dollar Saving & Tr. Bldg., Pittsburgh, Pa.

**D. C.**, Washington—Brightwood Park Methodist Church, Rev. W. M. Michael, Pastor, 5315 Eighth St., N. W., erect \$125,000 bldg., Eighth and Jefferson Sts., N. W.; stone, 1 story.

**Fla.**, Palm Beach—Christian Church, Rev. Wm. John Minges, Pastor, has completed plans for Romanesque type bldg., Hibiscus St. and Rosary Ave.; timbered ceiling; Treanor & Fatio, Archts., Phipps Plaza, Palm Beach; A. F. Wickes, Consrt. Archt., St. Louis, Mo.

**Ga.**, Augusta—Central Christian Church, Crawford Ave. and Ellis St., Rev. P. W. Bowen, Pastor, erect Sunday school addition; 2 stories and basement; install new heating plant.

**Md.**, Baltimore—Messiah P. E. Church erect community house, Old Harford Rd. near Glenmore Ave.

**Miss.**, Hattiesburg—Immanuel and First Baptist churches may merge and erect building.

**Md.**, Baltimore—Third Reformed Lutheran Church, Paca and Saratoga Sts., Rev. Jas. Riley Bergey, Pastor, 337 E. 31st St., purchased site, Hillsdale Rd. and Mohawk Ave., for church, personage and community building.

**Miss.**, Meridian—First Baptist Church, Dr. Norman Cox, Pastor, erect \$15,000 addition; brick, 2 stories, 60x75 ft.; P. J. Krouse, Archt., M. & W. Bldg.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

Md., Baltimore—Board of Awards receive bids in duplicate until June 25 at office A. M. Denhard, City Register, for comfort station, Canton Market; drawings at office Bureau of Buildings, Municipal Office Bldg.

Miss., Meridian—Lauderdale County Bd. of Supvrs. repair courthouse; \$10,000; P. J. Krouse, Archt. M. & W. Bldg.

Mo., Washington—City Council erect Fire Engine House No. 1, Jefferson St. near Third St.; bids June 15.

N. C., High Point—City, E. M. Knox, City Mgr., plans \$150,000 addition to city hall; about 50x100 ft.

Okla., Newkirk—Kay County Bd. of Comr. lets contract June 17 for \$50,000 county home; brick veneer, 1 story and basement, 34 rooms, hospital ward, etc., sewage disposal plant.

S. C., Charleston—City Council, Thos. P. Stoney, Mayor, plans erecting colored Old Folks Home, instead of remodeling bldg. as lately reported. 5-2

Tenn., Union City—City Comn., J. A. Prieto, member, plans city hall, Church and Second Sts.; \$20,000, 45x90 ft.

Tex., Brownsville—Cameron County Bd. of Comr. receives bids July 8 at office J. J. Bishop, County Auditor, for new roof and gen. repairs to courthouse; Atlee B. & Robt. M. Ayres, Archts., Smith-Young Tower, San Antonio.

Tex., Dallas—Highland Park City Council, R. B. Thomas, City Engr., plans election on \$75,000 library bonds; Frank O. Witchell, Archt., American Exch. Bk. Bldg.

Tex., Mercedes—City Council erect fire station.

Tex., Denton—City Council erect 2 fire stations.

Tex., Sanderson—Terrell County remodel courthouse; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

## Dwellings

Ala., Montgomery—Carl Moore erect brick veneer residence, Boyleston; 2 stories and basement, hardwood floors, slate roofs; R. Kennon Perry, Archt., Mortgage Guar. Bldg., Atlanta, Ga.

Ark., Russellville—J. A. Clifton erect \$10,000 brick veneer residence, S. Oak St.

D. C., Washington—North Washington Realty Co., Silver Spring, Md., started work on 6 additional dwellings, Sligo Park Hills.

D. C., Washington—Mary Roberts Rinehart, 2419 Massachusetts Ave., N. W., has permit for \$15,000 addition to residence; brick and tile, 2 stories.

D. C., Washington—Mrs. G. McClure Church, care J. J. Whelan, Archt., 1731 L St., N. W., erect \$75,000 residence, Tracey Place, N. W.; brick, 3 stories.

D. C., Washington—R. L. Kanse has permit for \$10,000 residence, 4945 Thirtieth Place, N. W.; stone, 2 stories.

D. C., Washington—Thos. B. Young has permit for \$15,000 residence, 3623 Fulton St., N. W.; brick, 2 stories.

D. C., Washington—Madame K. Lesinoff has permit for \$50,000 residence, 2444 Belmont Rd., N. W.; stone and conc. block, 3 stories.

D. C., Washington—Gladys O. Speith, 2301 Naylor Rd., S. E., has permit for frame residence; 2 stories, \$10,000.

Fla., Hollywood—Hollywood Beach Builders, Inc., Hollywood Investment Bldg., organized to erect dwellings; \$20,000 to \$45,000 each.

Fla., Miami Beach—Roy A. Routhahn, 1718 Bay Rd., erect \$24,000 dwelling; plans and constr. by owner; also erect \$24,500 dwelling, Frank Wyatt Woods, Archt., Ingraham Bldg.

Fla., Palm Beach—St. Edwards R. C. Church completed plans for rectory; M. D. Metcalf, Archt., Post Office Bldg.

Fla., Palm Beach—Mrs. John Cooper (late noted Mrs. Durant Daniels) erect \$250,000 residence, S. Ocean Blvd.; Treanor & Fatio, Archts., Phipps Plaza. 5-30

Fla., Stuart—W. C. Carnegie remodeling and enlarging residence, Sewall's Point; \$50,000; tile floors, Spanish tile roof; Jack Yeates, Contr., Olympia, Fla.

Ga., Atlanta—Judge T. O. Hethcock, 1366 Division Place, S. W., erect \$10,000 residence, Dill Ave.; brick veneer, 1 story and basement.

Ga., Atlanta—S. A. Ozburn, Citizens & Sou. Bk. Bldg., erect \$15,000 residence; brick veneer, hardwood and tile floors, comp. roof; Lodowick Hill, Jr., Archt., Atlanta Natl. Bk. Bldg.

La., Lake Charles—W. H. Mangan, Jr., receives bids June 24 at office Asmus, Clarke & McCook, Archts., Lake Charles, La., for brick veneer Colonial residence; cut stone trim, 2 stories, 72x62 ft., oak floors, asbestos shingle and comp. roof, built-in features: separate bids on plumbing and heating; following contractors estimating: W. J. Quick, Pere Marquette Bldg., New Orleans; P. Oliver & Son, 114 Bilbo St., New Orleans; Sollier St.; A. Hoffpauir, 1214 Bank St., both Olivier & Son, 114 Bilbo St.; L. F. Marti, Lake Charles; King-Huff Construction Co., 561 Franklin St.; T. J. Posey, 887 Corley St., both Beaumont, Tex.

La., New Orleans—Louis Roschun, 1042 Desire St., erect single raised residence, Alvar St. near Derbigny St.

La., New Orleans—Louis Miramon, 1202 Kentucky St., erect 3 double dwellings, Robertson St. near Kentucky St.; also double dwelling, Johnson St. near Puling, and on Prieur St. near Alvar; \$15,000.

La., New Orleans—S. S. Stumpf, 1018 Pine St., erect 2-story frame and stucco residence, Pine St., near Freret St.; also remodel dwelling, 1018 Pine; Jones, Roessel & Olschner, Archts., Maison Blanche Bldg.; low bid at \$15,100 from Reilly-Ruckstuhl, Inc., 423 Carondelet St.

La., New Orleans—J. A. Rodick, 5620 Hurst St., erect 5 double dwellings, Derby Place near Salcedo St.; comp. roofs; \$10,000.

La., New Orleans—J. A. Hofheinz, 3221 Jena St., erect \$10,000 duplex, Roman St. near Jena St.; P. F. Donnes, Archt., 3803 Cleveland St.

La., Shreveport—L. C. Best, 1039 Blanchard St., erect \$17,000 residence; D. A. Somdal, Archt.; bids in.

Md., Baltimore—City Real Estate Co., 11 E. Fayette St., erect number 2-story brick dwellings, Carswell St.

Md., Taylor, R. D. from Monkton—Dean Bedford, Norwick, Long Island, purchased farm near Harford Hunt Club; remodel dwelling and erect stables.

Miss., Meridian—Mrs. R. W. Bourdeaux, 24th Ave. and 17th St., erect \$12,000 residence; brick and stone, 2 stories and basement, 28x28 ft., hardwood floors; Douglas D. Ellington, Archt., Flat Iron Bldg., Asheville, N. C.

Mo., Cape Girardeau—Judge O. A. Knehaus, 337 Themis Ave., erect stone veneer residence, Bellevue and Sprigg Sts.; 2 stories and basement, 38 x 30 ft., hardwood floors, tile bath, asphalt shingle roof, vapor heat; R. K. Knox, Archt., 1373 Arcade Bldg., St. Louis.

N. C., Winston-Salem—Dr. C. S. Lawrence, Oak St., has permit for \$30,000 brick veneer residence, Stratford Rd.; 2 stories, stone tile foundation, tile roof.

Okl., Oklahoma City—J. A. Linbarger, 1845 W. 11th St., has contract for \$12,000 duplex, 2759 W. 19th St.; 2 stories, 38x53 ft.

Okl., Oklahoma City—Chester William erect 2 brick duplexes, 2900 W. 19th St. and 1913 N. May Ave.; \$10,000.

Okl., Oklahoma City—Ethel Rollins erect \$10,000 brick residence, 2341 W. 12th St.

Okl., Shawnee—J. A. Wagner erect \$15,000 residence; brick veneer, 2 stories, 34x70 ft.; A. C. Davis & Sons, Archts.

Okl., Tulsa—W. F. Rowlinson, 7 S. Gillette St., erect residence, 2306 E. Admiral Blvd.

Okl., Wewoka—T. J. Spencer erect \$15,000 residence; 2 stories, 32x44 ft.; A. C. Davis & Sons, Archts., Shawnee.

S. C., Aiken—Mrs. Martha Gardner Reyburn, Washington, D. C., and care Mrs. Marie Eustis Hoffman, Aiken, reported, erect winter residence, Highland Park.

S. C., Columbia—John G. Ehrlich, 1019 Marion St., erect \$19,000 residence, 300 block S. Harden St.; brick veneer, 2 stories, 10 rooms.

S. C., Columbia—Mrs. M. Kelley erect \$10,000 brick veneer duplex, 2610 Lee St.

Tenn., Memphis—Saul Izenberg, 148 Union Ave., erect brick veneer residence, Kenilworth Place; 1 story and basement, 52x74 ft., oak floors, comp. or tile roof, tile baths, steam heat; H. M. Burnham, Archt., Goodwyn Inst. Bldg.; soon ready for bids.

Tenn., Nashville—E. J. Pendleton, Irving Apts., erect Breeko block stone and conc. residence, Lauderdale Rd.; 2 stories and basement, 41x44 ft.; Welby N. Pugin, Archt., 149 Sixth Ave., North; bids in.

Tex., El Paso—Herbert W. Gehring & Co., Caples Bldg., erect 5 dwellings, 3300 block Idalia St.; brick and stucco, 5 rooms, \$3000.

Tex., El Paso—Phillips Realty & Building Co. organized; started work on 4 dwellings.

Tex., Fort Worth—Fairmount Land Co., 909 Throckmorton St., erect \$10,000 brick veneer residence, 1941 Chatburn Court.

Tex., San Antonio—Morris Adelman, 501 W. Commerce St., erect \$13,500 residence, E. Summit Ave.; 8 rooms.

Tex., Fort Worth—W. C. Stripling, Jr., 1415 Clover Lane, erect painted brick residence, Ridgels; 2 stories and basement, oak floors, slate roof, 2 tile baths, hot air heat; H. H. Crane, Archt., Petroleum Bldg.; bids June 20.

Tex., Houston—W. L. Childs, 4412 Mt. Vernon St., erect brick veneer residence, River Oaks; 2 stories, 34x76 ft.; Carl A. Mulvey, Archt.

Tex., Houston—Dave Davis, 420 Dowling St., erect \$10,000 residence and garage, 2601 Blodgett St., Washington Terrace; brick veneer, 6 rooms; Wm. Fred Gray, Archt.; Dalton Hooper, Contr.

Tex., Houston—E. H. Fleming Co., Democratic Bldg., plans number dwellings, Southampton.

Tex., Houston—Gasper Geaccone, 607 Sabine St., erect \$27,500 residence, W. Lamar and Taft Sts.; 2 stories, 10 rooms; Thiel & Maddrey, Archts., Esperson Bldg., bids in.

Tex., Houston—Geo. N. Marshall, 526 Byrne St., erect 2 brick veneer dwellings, 1920-30 W. Lamar St.; brick veneer, 6 and 10 rooms; \$16,000.

Va., Waynesboro—Lambert, Barger & Branaman consider erecting 20 to 50 dwellings near Hermitage Rd.

W. Va., Charleston—Thomas Bros., Charleston Natl. Bk. Bldg., erect 17 dwellings, South Ruffner; brick and stucco, \$8000 to \$8000.

## Government and State

Ark., Clarkesville—Arkansas National Guard, Little Rock, erect \$25,000 armory, College Ave.

D. C., Washington—Supreme Court Bldg. Coms., having preliminary plans drawn for Supreme Court Bldg., E. Capitol St., Maryland Ave., First and Second Sts.; fireproof; Classic type, Corinthian motif, marble trim in interior, 385x304 ft., central section 4 stories above east front terrace, 3 stories on west front, remainder lower; Supreme Court room about 64 ft. square, about 30 ft. high, public and private corridors, elevators, law libraries on second and third floors; inclined driveways to basement, auto storage space, ventilation system; probable cost, including terraces, exclusive of furniture and book stacks, about \$9,740,000; Cass Gilbert, Archt., 244 Madison Ave., New York. 4-11

Ga., Fort Benning—Constructing Quartermaster, Lieut. W. M. Allison, rejected bids for additions to Ward C and connecting corridors and for nurses' quarters, Fort Benning; will soon request previous bidders to refigure on revised plans.

Ia., Kentwood—Naul-Morris Co. erect brick bldg. to be leased to Government for post office; fixtures \$3000.

Md., Rockville—Brosius Bros., care Brosius Bros. & Gormley, erect brick and tile bldg.; section to be leased to Government for post office; 2 stories; stores on half of first floor, offices above.

N. C., Asheville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid from Murch Bros. Construction Co., Railway Exch. Bldg., St. Louis, Mo., for post office and courthouse, at \$544,000 for limestone and \$564,000 for sandstone. 5-30

N. C., Kinston—State Farm Colony for Women plans additional building.

Tex., Taylor—Additional contractors estimating on post office, bids July 5 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; DeVault & Deitrick, Massillon Rd., Canton, O.; J. P. Foley & Sons, Inc., Little Bldg., Boston, Mass.; Kellogg & Anderson, 405 E. Second St.; Chas. Weitz's Sons, 713 Mulberry St., both Des Moines, Iowa; Theriault Contracting Co., San Antonio, Tex.; Wm. MacDonald Construction Co., Synd. Tr. Bldg., St. Louis, Mo.; Fayette Construction Co., 500 W. Short St., Lexington, Ky. 6-13

## Hospitals, Sanitariums, Etc.

Ark., Monticello—City, M. Y. Pope, Mayor, considers erecting 25-bed hospital; stone and brick, 2 stories.

Md., Crownsville—Crownsville State Hospital Bd of Trustees will have plans drawn by Jas. Posey, Engr., 201 W. Franklin St., Baltimore, for \$75,000 central steam power plant.

N. C., Asheboro—Chamber of Commerce and others interested in \$62,000 hospital; 40 beds; half of amount to be given by Duke Endowment.

N. C., Reidsville—Dr. T. W. Edmunds, Arcade Bldg., Danville, Va., erect \$110,000 general hospital, 338 Main St., steel, brick and conc., fireproof, 3 stories, 138x40 ft., conc. floors, roof garden; furnishings, equipment, etc., \$40,000 to \$50,000; structure to be called Annie Penn Memorial Hospital; Roger B. Davis, Archt., Danville; open bids about July 1 or July 15.

N. C., Greensboro—Edw. Benjamin, D'Escalet St., erect annex to dwelling, Summit Ave., and convert for Sternberger Children's Hospital; Harry Barton, Archt., Jefferson Bldg.

Okla., Okmulgee—Sisters of Mercy, Oklahoma City, consider erecting \$500,000 hospital.

Tenn., Jackson—Dr. Chas. F. Webb, 811 Highland Ave. and Dr. G. L. Williamson, 1019 Highland, consider erecting sanitarium; rein. conc. and brick, 2 or 3 stories and basement.

Texas—Mrs. H. O. Schaleben, Edinburg, is member of auxiliary interested in tuberculosis sanatorium, Hidalgo County.

W. Va., Bluefield—Hassel T. Hicks, Archt., Welch, drawing plans for Stevens Clinic Hospital, Dr. W. B. Stevens, Pres.; Eckman; 4 stories, 98 ft. long, 40x54 ft. wing.

### Hotels and Apartments

Fla., Daytona Beach—Saranac Inn, Har-lington Mills, Pres., Saranac Inn, P. O., New York, purchased Coquina Hotel and improve; install passenger elevator, 10 h.p. upright boiler, kitchen equipment and painting.

La., Lake Arthur—H. T. McClain and associates, Weber Bldg., Lake Charles, plan \$100,000 brick hotel; H. C. Wilson, Archt.

La., Shreveport—D. F. Semich has low bid at \$12,900 from Land Building Co. for 2-story garage and apartment addition to building, Marshal land 6th Sts.; E. A. George, Archt.

Mo., St. Louis—Wm. Schulte, 4519 Elm Bank, soon let contract for 2-story and basement, 24x134 ft., brick and terra cotta, 14-apartment, Whittier and St. Ferdinand St.; Ernest Hess, Archt., Title Guarantee Bldg.

Mo., St. Louis—Sam Hamburg, Jr., Arcade Bldg., soon let contract for 3-story and basement, 120x132x38 ft., U-shape, brick, rein. conc., fireproof, 30-apartment, Cabanne Ave. near Union; comp. roof, terra cotta trim, steam heat, electric refrigeration, incinerator, in-a-door beds; Ben Shapiro, Archt., Syndicate Trust Bldg.

Mo., St. Louis—Exermont Realty Co. erect 24-apartment, 5562 Clemens Ave.

N. C., Elk Park—Elk Park Hotel repair structure recently damaged by fire.

N. C., Greensboro—Tar Hill Inn erect addition and alter building at Sedgefield; \$15,000.

Okla., Oklahoma City—Sam Chaney, 1414 W. 11th St., has permit for \$20,000 brick apartment, 440 W. 26th St.

Tenn., Jackson—R. C. Lykins, Henderson, having plans prepared by J. F. Parish, McCowert-Mercer Bldg., for \$100,000, 4-story and basement, 110x100 ft., brick, conc. and steel hotel; comp. built-up roof, stone trim, conc. tile and hardwood floors; stores on first floor.

Tex., Bay City—R. H. Kniseley having plans prepared by Curtis & Thomas, Post-Dispatch Bldg., Houston, and Constr. Industries Bldg., Dallas, for \$12,000, 2-story, brick veneer, 12-apartment.

Tex., Fort Worth—Lou D. Ladd, Petroleum Bldg., and George B. McCamey, W. T. Waggoner Bldg., erect \$150,000, 7-story, 50x100 ft. Bluebonnet Hotel Apartments, 612 Sixth St.; Joseph R. Felich, Archt., W. T. Waggoner Bldg.; plan another building adjoining Bluebonnet later.

Tex., Lampasas—Chamber of Commerce, J. R. Key, Chmn., having plans prepared by P. G. Silber Co., Bedell Bldg., San Antonio, for 4-story, 126x92-ft. brick and conc., 50-room hotel. 4-11

Tex., Marshall—Following contractors estimating on 9-story, 65x95 ft., brick, steel, rein. conc. fireproof hotel for S. B. Perkins, Perkins Dry Goods Co., bids June 24, separate bids on mechanical work: General-Joplins Construction Co., Fidelity Union Bldg.; A. J. Rife Construction Co., 1913 N. Harwood St.; Bellows-Maclay Construction Co., Construction Industries Bldg.; Christy-Dolph Construction Co., both Construction Industries Bldg.; L. H. Lacy Co., Burt Bldg., all Dallas; Wood Bros. & All-

man, Sherman; H. W. Underhill, Wichita, Kans. and Construction Industries Bldg., Dallas; Meriwether & Saures, Harlington; Quisle & Andrews, 2212 W. 7th St.; Thos. St. Byrne, Inc., Van Zandt Bldg.; Jas. T. Taylor, First Natl. Bk. Bldg., all Fort Worth; K. C. Wilson, Slattery Bldg.; Werner Co., Commercial Bk. Bldg.; McMichael Construction Co., City Bk. Bldg., all Shreveport, La.; plumbing and heating—Dave Meer & Co.; Levy Plumbing Co., 2107 N. Harwood St., both Dallas; Shaw Gas & Plumbing Co., Texarkana; Geo. Schmidt, 209 W. 11th St.; Montriel & Montriel, 307 W. 13th St.; S. P. Osbourne, 1900 Fifth Ave., all Fort Worth; Newman, Parker Co., Greenville; Koriotis Plumbing & Heating Co., Sherman; Robinson Brothers Plumbing & Heating Co., 214 W. Barr St., Pine Bluff, Ark.; Fitzgerald Plumbing & Heating Co., 941 Louisiana Ave.; Wessell & Co., 719 Milan St., both Electric Construction Corp., 209 S. Pearl St.; Shreveport; electric wiring—N. E. Bushey; Superior Electric Co., 409 S. Eway St.; Paramount Electric Co., 1621 Electric St., all Dallas; Eugene Ashe Electric Co., 505 Jones St., Fort Worth; Hart Enterprise Electrical Co., Inc., 826 Baronne St., New Orleans, La.; The Electric Shop, 216 Texas St.; Elliott Bros. Electric Co., 215 Milan St., both Shreveport; Wyatt C. Hedrick, Inc., Archt. First Natl. Bk. Bldg., Fort Worth. 6-6

Tex., Menard—Harden Green erect 4-story, brick, stone and rein. conc., 17-room hotel addition; A. B. Withers, Archt., Mineral Wells.

### Miscellaneous

Ark., Fort Smith—Rosalie Tilles Children's Home Bd. of Managers plans addition to accommodate 50 children.

Ark., Little Rock—National Film Co., G. J. Stumpf, Pres., Hollywood, Calif., reported, erect \$500,000 motion picture studio in or near Little Rock, in connection with colonization project, being sponsored by Knights of Utopia, A. J. Patterson, 815 W. 9th St., Little Rock, which contemplates establishing education institution, probably college, textile mill, cottonseed oil mill and refinery, stone plant, perhaps soap factory and radio cabinet factory.

Fla., Miami Beach—St. Patrick Church, Meridian Ave. and 39th St., erect convent; Gerald A. Barry, Archt., Chicago; bids in.

Fla., Olympia—W. S. Barstow ready for bids about June 17 for pavilion and swimming pool; Marsh & Saxelby, Archts., Consolidated Bldg., Jacksonville.

Fla., Palatka—H. J. Klutho, Archt., completed plans for \$40,000, 1-story brick and hollow tile, stone trim Memorial Library.

Md., Frederick—Frederick County Agricultural Society, Guy K. Motter, Sec., 114 N. Market St., receives bids June 29 for addition to grandstand; accommodate 1000 additional people; Edward Leber, Archt., York. 5-23

Miss., Gulfport—Basil Breeding & Racing Assn., B. R. Vaughn, J. M. Brownell, reported, selected Shrouds & Bean to prepare plans and superintendent construction track, stables, jockey club, paddocks, administration building and stadium to seat 9000 people on lands of Pine Hills Hotel & Country Club, Inc., recently acquired by Bowman-Biltmore Hotel Corp., Madison Ave. and 43rd St., New York; 32 stable buildings to cost \$225,000 and house 1000 horses.

Okla., Lawton—Ritter Funeral Home erect 2-story brick and stone funeral home; Guy Dale, Archt.

Okla., Sand Springs—Library Bd., Mrs. Charles Page, Chmn., having plans prepared by Otis Floyd, Chicago, for \$75,000 2-story library.

Okla., Tulsa—St. Louis interests having plans prepared by A. M. Atkinson, Mid-Cont. Bldg., for \$350,000 building, 10th St. and Detroit Ave.; stores on first floor; ballroom on second floor to accommodate 3000 people.

Tex., Paducah—J. E. Norris having plans revised by W. Roberts and R. S. Smith, Reynolds Bldg., Fort Worth, for \$15,000, 2-story and part basement, 73x48 ft., brick and frame mortuary.

Tex., San Augustine—San Augustine County Fair Assn. start work about July 1 on 60x100-ft. exhibition building.

Tex., San Antonio—Protestant Orphans Home Bd. of Directors, Mrs. T. T. Campbell, Pres., has low bid at \$24,707 from Moeller & Weilbacher, 1211 Willow St., for 1-story, 111x32 ft., brick and rein. conc. isolation ward building; Phelps & Dewees, Archts., Gunter Bldg.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce Bldg. 6-6

W. Va., Martinsburg—M. A. Little has permit for \$30,000 market; 18,000 sq. ft. market space.

### Railway Stations, Sheds, Etc.

Ala., Atmore—St. Louis & San Francisco R. R., F. G. Jonah, Ch. Engr., St. Louis, Mo., erect \$30,000 freight and passenger depot.

Ky., Louisville—Louisville and Southern Indiana Traction Co. has permit for \$30,000 brick freight station, 443 S. First St.

### Schools

Ala., Auburn—Alabama Polytechnic Institute, Dr. Bradford Knapp, Pres., erect \$250,000 Bibb Graves Administration Bldg. and \$100,000 dormitory.

Ala., Birmingham—R. T. Banks, Banner Printing Co., having plans prepared by W. A. Rayfield & Co., Drawer 644, for \$60,000, 3-story, 35x100-ft. brick and tile building for Bank's School of Music, Alabama Baptist College; asbestos shingle roof, pine floors.

Ala., Florence—Following contractors estimating on 3-story and basement, 183x103-ft. Bibb Graves Hall and additions and alterations to 1-story and basement, 37x91-ft. training school at Florence State Normal School, bids June 24: J. S. McCauley Co., Bona Allen Bldg., Norwood Griffin Co., Bona Allen Bldg., both Atlanta, Ga.; C. M. Guest & Sons, Sharpe St., Anderson, S. C.; Foster & Creighton, 301 Broad St., Nashville, Tenn.; Howard Lumber Co., Tuscumbia; M. V. Carter, Troy; Walker Bros., A. J. Honeycutt Co., Martin Bldg., both Birmingham; L. C. Ellison Co., Ensley; Tate & Maffett; Jas. C. Blalock, G. P. Norquist, Richardson Lumber Co., all Florence; Frost Construction Co.; A. C. Samford, 301 Washington Ave.; Hugger Bros. Construction Co., Shepherd Bldg., all Montgomery; J. W. Chambers Lumber Co., Athens; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 6-13

Ala., Troy—Following contractors estimating on 3-story and basement, 294x76 ft. dormitory and 2-story and basement, 195x106 ft., classroom building at State Normal School, bids June 24; A. J. Honeycutt Co., Martin Bldg., Birmingham; L. C. Ellison & Co., Ensley; Hugger Bros. Construction Co., Shepherd Bldg.; Awlt Construction Co., A. C. Samford, 301 Washington Ave.; Frost Construction Co., all Montgomery; H. H. Brown, Dothan; Dolph Owen; M. V. Carter, both Troy; J. M. Raymond Construction Co., Hildebrandt Bldg., Jacksonville, Fla.; W. E. Itubush, 507 Morgan St., Tampa, Fla.; rein. conc., brick, stone trim, comp. roof, terrazzo and tile floors, steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 6-13

Ark., Conway—State Teachers' College Trustees erect \$50,000 library building.

Ark., Fort Smith—Church of Immaculate Conception, R. F. Horan, Pastor, 210 S. 13th St., ready for bids about June 20 for \$150,000, 5-story, rein. conc., brick, stone high school, 13th and A Sts.; Bassham & Wheeler, Archts., Kennedy Bldg. 5-23

Ark., Greenwood—School Bd. erect high school and remodel present building for grade school; Bassham & Wheeler, Archts., Kennedy Bldg., Fort Smith.

Ark., Pine Bluff—Jefferson County Bd. of Education plans \$40,000 building program: Two-room school at English, 2-room school at Key plantation, two 4-room buildings at Altheimer, 6-room and auditorium school at Sherrill; 6 or 8 room training school at Wabaseka. 5-23

Ark., Rogers—Rogers Special School Dist., George M. Love, Pres., having plans prepared by A. O. Clark for \$40,000, 2-story, 79x81 ft., brick and conc. high school addition; comp. built-up roof, conc. and pine floors, stone trim.

Ga., Atlanta—Bd. of Education, R. R. Ritchie, Asst. Supt., erect \$10,000 annex to I. N. Ragsdale School; also \$20,000 auditorium and gymnasium addition to Goldsmith School; brick, built-up roofs.

Ga., Chickamauga—Bd. of Education erect \$100,000 school; comp. roof; R. H. Hunt & Co., Archts., James Bldg., Chattanooga, Tenn.

Ga., Decatur—Agnes Scott College, Dr. J. P. McCain, Pres., plans to call for bids about Sept. for academic building; \$75,000 laundry and steam plant being erected under supervision Robert & Co., Engrs.; Converse-Myers Co., Contrs., both Bona Allen Bldg., Atlanta; Edwards & Sayward, Archts., 101 Marietta St., Atlanta. 6-6

Ga., Dillard—Bd. of Education ready for bids in few days for 8-classroom, brick and frame school; comp. roof, wood and conc. floors; Wm. J. Chase, Archt., 140 Peachtree St., Atlanta. 4-25

Ga., Taylors Creek—Taylors Creek School Dist. erect \$10,000 fireproof school to replace structure recently destroyed by fire.

Ky., Louisville—City considering bond election for boys' high school to cost \$900,000, and junior high school in Crescent Hills; Edward Gottschalk, Pres. Bd. of Education.

La., Athens—Clairborne Parish School Bd. Dr. C. C. Craighead, Chmn., Bldg. Comm. receives bids July 8 for \$16,500, 1-story brick auditorium and gymnasium addition to school; comp. roof; plans from Edw. F. Neild, Archt., City Bk. Bldg., Shreveport.

La., Bogalusa—School Bd., M. O. Rudolph Supt., having plans prepared by Rathbone DeBuys, Hibernia Bk. Bldg., New Orleans, for 2-story brick and stone trim grammar school, grammar school on high school grounds and 6-room annex to Central school; \$90,000. 5-30

La., Cottonport—Following contractors estimating on 2-story brick and stone trim high school, bids July 2 at office Avoyelles Parish School Bd., Marksville; W. J. Quick, Pere Marquette Bldg., New Orleans; Tudor & Ratcliff, Alexandria; E. E. Rabalais & Son, Bunkie; P. Olivier & Son, 114 Bilbo St., Lake Charles; Sam Ducote, Cottonport; L. W. Eaton, 1601 N. Boulevard, Baton Rouge; Sandquist & Snow of La., Inc., Alexandria; G. L. Whitaker, Covington; Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans. 6-13

La., Florian—Sabine Parish School Bd., G. C. Reeves, Sec.-Treas., Many, ready for bids in about 2 weeks for \$65,000, 2-story, rein. conc., brick, stone trim, 20-classroom school; built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg., Monroe. 5-2

La., Lafayette—Lafayette Parish School Bd., L. Leo Justice, Pres., receives bids July 5 for additions and alterations to 2-story brick school at Broussard; gymnasium building at Lafayette Central High school, Lafayette; gymnasium-agricultural building and home economics cottage at Youngsville; auditorium and home economics cottage at Scott; separate bids for each building and separate bids for plumbing and heating in each case; plans from Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans.

La., Ruston—Following contractors estimating on 2-story, 52x157-ft., brick, rein. conc., stone trim dormitory at Louisiana Polytechnic Institute, bids June 28; Knapp & East; P. Olivier & Son, 114 Bilbo St., both Lake Charles; Tudor & Ratcliff, Alexandria; Welch & McLain; H. Cleveland, Giddens-Lane Bldg., both Shreveport; J. H. Reddick, Kennedy Bldg., Fort Smith, Ark.; W. C. Salley, Ouachita Natl. Bk. Bldg., Monroe; Edw. F. Neild, Archt., City Bk. Bldg., Shreveport. 6-6

Miss., Bay Springs—Bay Springs Consolidated School Dist. votes June 29 on \$20,000 bonds for high school.

Miss., Bay St. Louis—St. Stanislaus College erect \$75,000 building; 2 stories, brick, fireproof.

Miss., Belzoni—Belzoni Consolidated School Dist. voted \$65,000 bonds for school. 5-23

Miss., Biloxi—Church of Nativity, Rev. Father Peter Keenan, Pastor, plans \$100,000 parochial school.

Miss., Brandon—Brandon School Dist. votes June 28 on \$25,000 bonds for school additions; N. W. Overstreet, Archt., Miss. Fire Insurance Bldg., Jackson. 6-13

Miss., Goodhope, R. D. from Lena—Goodhope Consolidated School Dist. Trustees receive bids June 25 for high school; George Emmett, Archt., Carter Bldg., Hattiesburg.

Miss., Greenwood—Bd. of School Trustees H. L. DeLoach, Pres., receives bids June 24 for high school gymnasium; \$30,000, brick; for school in East Greenwood; separate bids F. R. McGahey, Archt.; following contractors estimating: W. L. Howell; S. L. McGinnis; M. S. May; S. E. Beman, all Greenwood. 6-13

Miss., Greenville—City votes July 10 on \$225,000 bonds for junior high school; N. W. Overstreet, Archt., Miss. Fire Insurance Co. Bldg., Jackson. 5-23

Miss., Mt. Olive—School Bd., Dr. A. S. Calhoun, Pres., selected Vinson B. Smith, Jr., of Gulfport, Gulfport, as architect for \$25,000, 1-story brick high school; 4 classrooms, library, office and combination study hall and auditorium; also plans remodeling and repainting present 10-room school. 6-18

Miss., Orange Grove—Orange Lake School Dist., W. M. Alexander, Supt., Jackson County Schools, Pascagoula, having plans prepared by Shaw & Woleben, Gulfport, for \$20,000 brick school near Orange Grove. 6-13

Miss., Paulding—Jasper County Bd. of Education consolidated Heidelberg and Clairborn high schools and erect central high school.

Miss., Sallis—Attalla County School Bd., Kosciusko, erect \$20,000 brick dormitory at Agricultural High School near Sallis.

Miss., Seminary—Seminary Consolidated School Dist., Trustees receive bids June 24 for \$30,000 high school; George Emmett, Archt., Carter Bldg., Hattiesburg.

Mo., Hannibal—Bd. of Education repair schools; \$20,000 bonds voted.

Mo., Springfield—Bd. of Education, E. A. Barbour, Sr., Pres., 401 Central St., erect schools as follows: Two and three story Bowerman Grade, \$122,000; 2 and 3 story Lincoln Grade and Jr. High, \$100,000; 2-story Weaver Grade, \$96,000; 2-story Campbell Grade, \$90,000; 2-story Bailey Grade, \$82,000; 2-story Sunshine Grade, \$56,000; 2-story Home Grade, \$50,000; alterations and addition to Senior High, \$91,000; additions to Robberson Grade, \$56,000; York Grade, \$50,000; Peppermint Grade, \$38,000; Roundtree Grade, \$25,000; all brick construction; W. B. Itner, Asso. Archt., 911 Locust St., St. Louis. 6-6

Mo., St. Louis—Bd. of Education, A. A. Bluemeyer, Pres., Ninth and Locust Sts., erect 1-story brick Cleveland High School addition; R. M. Milligan, Archt., Bd. of Education Bldg.

N. C., Durham—North Carolina College for Negroes, James E. Shepard, Pres., receives bids July 2 for 3-story and basement, 125x44-ft., brick, fireproof dormitory to accommodate 100 girls; conc. interior columns and floors, slate roof on gypsum tile; Atwood & Nash, Inc., Archts., Chapel Hill. 4-18

N. C., Greensboro—Immanuel Lutheran College erect \$75,000 building; Harry Barton, Archt.

N. C., Harmony—Iredell County Bd. of Education, Miss Celeste Henkle, Sec., Statesville, erect schools at Harmony and Shepherds; M. R. Marsh, Archt., Builders Bldg., Charlotte; bids in.

N. C., Lexington—Davidson County will issue \$82,000 bonds for additions to schools; Prof. S. G. Hasty, Supt. of Schools.

N. C., Rockingham—Morrison Training School soon ready for bids for 2 dormitories; \$40,000.

Okl., Acme—Acme School Dist. erect \$15,000, 1-story, 100x60-ft. brick and conc. school A. C. Davis & Sons, Archts., Shawnee.

Okl., Ardmore—St. Mary's Catholic Church having plans prepared for rectory and parochial school; \$50,000.

Okl., Elk City—Bd. of Education soon ready for bids for 1 and 2 story, brick, stone, rein. conc., fireproof grade school and gymnasium; Joe I. Davis, Archt., First Natl. Bk. Bldg., Oklahoma City.

S. C., Greenville—Bd. of School Trustees erect annex to high school, 8-classroom grammar school, John and Hudson Sts.; first work of \$700,000 building program to be undertaken. 5-3

Tenn., Brownsville—School Bd., C. W. Anderson, Supt., plans 2-story and basement brick school; election June 18 on \$50,000 bonds.

Tex., Alamo Heights, San Antonio—Alamo Heights School Dist. voted \$250,000 bonds for high school and repairs to present buildings.

Tex., Boling—Boling Ind. School Dist. Trustees, L. L. O'Neal, Pres., receive bids June 26 for 1-story, 74.8x368.8 ft. addition and remodeling high school at Boling; \$80,000; also for 1-story, 106.4x108.8 ft. ward school for New Gulf; \$55,000; both, conc. brick and stucco, built-up comp. roofs, conc. and wood floors; separate bids for steam heating, plumbing and wiring; Page Bros., Archts., Austin Natl. Bk. Bldg., Austin; M. L. Driver, Consrt. Engr., San Antonio. 6-6

Tex., Crosby—Crosby Ind. School Dist. votes July 2 on \$40,000 bonds for improvements to grammar school, laboratory equipment at high school, 3 additional rooms at Highland School, improvements to Clawson school and 1-room school.

Tex., Dallas—Catholic Diocese, Right Rev. Joseph P. Lynch, Bishop of Dallas, purchased building of University of Dallas, Oak Lawn Ave. and Blackburn St., and expend \$100,000 for improvements for school; plan to start work July 1.

Tex., Era—Era Ind. School Dist. votes June 29 on \$14,000 bonds for 7-room brick school; Geo. Canady, Sec., Bd. of Trustees. 6-13

Tex., Fairview—Fairview Ind. School Dist., Mrs. Russell Savage, Pres., has low bid from Wood Sherman Construction Co., Inc., 315 Peoples St., Corpus Christi, for 2-story, brick, rein. conc., stone trim school on Shell Road; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 6-13

Tex., Jacksboro—Bd. of Education, Works Porter, ready for bids about June 22 for 2-story and basement, brick and rein. conc. 10-classroom and auditorium high school; electric bell system; \$120,000 bonds voted; Elmer G. Withers, Archt., Holmes Bldg., Fort Worth; A. B. Withers, Asso. Archt., Mineral Wells. 5-23

Tex., Luling—Luling Consolidated School Dist. Trustees erect \$25,000 school.

Tex., Oakhurst—Oakhurst Consolidated School Dist., J. H. Hedrick, Supt. of Schools, erect brick school; \$35,000 bonds voted.

Tex., Pandora—Pandora Ind. School Dist. Trustees receive bids June 22 for 1-story, brick, 5-room and auditorium school; Will N. Noonan Co., Archt., Bidrs. Exchange Bldg., San Antonio. 5-2

Tex., San Antonio—Los Angeles Ind. School Dist. voted \$250,000 bonds for \$140,000 high school and repairs to 4 buildings; J. C. Arnold, Chmn., School Trustees, 124 Ligustrum Drive; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg. 5-23

Tex., Waco—Baylor University, Dr. S. P. Brooks, Pres., soon ready for bids for \$350,000, 4-story, brick, steel, rein. conc. dormitory; B. D. Easterwood, Archt., Liberty Bk. Bldg.; H. L. Spicer, Engr., Amicable Bldg.

Va., Luray—Page County School Bldg., Harry B. Hanger, Supt., receives bids about Sept. 1 for \$150,000, 2-story, 200x120 ft., brick, stone trim, fireproof high school; auditorium and gymnasium in connection; Mims, Speake & Co., Archts. 5-30

W. Va., Elkview—Elkview Bd. of Education receives bids July 1 for 2-story and basement, 22x51-ft. brick addition to Elkview High School, including plumbing and electrical work; separate bids for heating, filling and grading; conc. paving, interior waterproofing of conc. floor of gymnasium and laying cement floors for same; plans from Wysong & Bengston, Archts., Professional Bldg., Charleston. 5-28

W. Va., Harpers Ferry—Harpers Ferry School Dist. voted \$12,500, bonds for high school in either Harpers Ferry or Bolivar and one at Millville. 6-6

## Stores

Ark., Gulon—Jim Lovelady, Lawrence Sheftel, N. Pierce & Son and Jay Arnold plan stores.

Ark., Hamburg—L. J. Serrett erect 4 buildings to cover space 120x100 ft., to replace burned structures—postoffice, barber shop, store and filling station and accessory store; postoffice, 27x75 ft., 1 story, brick, \$4500. 6-13

D. C., Washington—David G. Grillbortzer, 825 13th St., N. W., erect \$25,000, 2-story, brick store, 815-17 Thirteenth St., N. W.

D. C., Washington—E. C. Clayton has permit for three 1-story brick stores, 3501-05 Twelfth St., N. W.; \$12,000.

D. C., Washington—A. P. Clarke, Archt., 14 Fourteenth St., N. W., advises work postponed until next season on \$125,000, 6-story addition to store for F. R. Jellef, Inc. 6-13

Fla., Palm Beach—Robert Glendinning, Worth Ave., erect commercial building, Royal Palm Way; bids in.

Fla., Palm Beach—Palm Beach Co., Seaview Ave., having plans prepared by Addison Mizner for store.

Ga., Atlanta—Albert E. Thornton, Jr., Atlanta Trust Co. Bldg., erect building, Pryor and Decatur Sts.

Ky., Cynthiana—Dennis Williams having plans drawn for 3-story, 47x71 ft. store, Pike and Walnut Sts.

Ky., Lexington—Harting Estate has permit for rebuilding structure, 314-16 W. Main St., recently damaged by fire; foundation and walls intact; brick, stone, steel, \$22,500.

La., New Orleans—J. V. Abinanti ready for bids for addition and alterations to 2-story brick store and residence, 4206 Magazine St.; Emile Weil, Inc., Archt., Whitney Bk. Bldg.

La., Shreveport—E. R. Ratcliff, Giddens-Lane Bldg., abandoned erection store, 712 Texas St.

Miss., Aberdeen—Commercial Bank & Trust Co. remodel building to be leased to J. C. Penney Corp.; \$15,000.

Mo., Kansas City—Chas. H. Price, Price Candy Co., excavating for 2-story fireproof building, 39th and Main Sts.; 110x160 ft.; footings and frame for 8 additional stories; 6 stores on ground floor, offices above; Wm. R. Bovard, Archt., Orear-Leslie Bldg.

Okl., Enid—John J. Vater soon ready for bids for \$18,000, 2-story, 50x63-ft. store; R. W. Shaw, Archt.

Oklahoma, Tulsa—National Supply Co., O. T. Dawson, Mgr., 9 S. Main St., ready for bids for 3-story, brick and rein. conc. store and warehouse; A. M. Atkinson, Archt., Mid-Continent Bldg.

Tenn., Chattanooga—Trotter Bros., Pound Bldg., have permit for addition and repairs to building, 237 E. 11th St.; \$11,000.

Tenn., Chattanooga—Frank Henderson, 6 N. Cumberland St., has permit for \$10,000, 1-story, brick and conc. block store, Glass St. and Chamberlain Ave.

Tenn., Smithville—F. Z. Webb & Sons erect brick store, Square and W. Main St.

Tenn., Smithville—J. C. Foster & Brother erect brick building.

Tex., Corpus Christi—Kokernot-Nixon Properties, Inc., Nixon Bldg., having plans prepared by Hardy & Curran, for stores, 1-story brick on Leopart St.; 150 ft. frontage.

Tex., Corpus Christi—S. B. Perkins Dry Goods Co., Marshall, receives bids June 24 for \$225,000, 2-story and basement 98x158 ft., brick and stone department store; separate bids on mechanical work: General—George Dennell; E. B. Jackson; Geo. B. Belote; H. E. Woodruff, Wood Sherman Construction Co., Dougherty-Nichols & Young, all three Nixon Bldg.; Vivnett & Vivnett, all Corpus Christi; McKenzie Construction Co.; Sumner-Sollitt, 448 Cassiano St.; Walker Construction Co.; L. T. Wright, both Builders Exchange Bldg., all San Antonio; Bellows-Macay Construction Co., Construction Industries Bldg., A. J. Rife Construction Co., 1913 N. Harwood St., James T. Taylor, First Natl. Bldg., Fort Worth; J. P. Miller & Co., Esperson Bldg., E. G. E. G. Macay Co., Post-Dispatch Bldg., T. B. Hubbard, Electric Annex Bldg., all Houston; wiring—Eugene Ashe Electric Co., 508 Jones St., Fort Worth; Superior Electric Co., 409 S. Ervy St.; Electric Construction Co., 209 S. Pearl St.; Paramount Electric Co.; N. E. Busbey, all Dallas; Kirkwood & wharton, San Antonio; Hedrick Electric Co.; Wilkins Electric Co., 513 Schatzel St., both Corpus Christi; plumbing and heating—A. H. Shafer, 829 N. St. Mary's St.; West & Gutzeit, 425 Main St., both San Antonio; Hannip Plumbing & Heating Co.; Corpus Christi Plumbing Co., 925 Staples St.; J. H. Dyer, Nixon Bldg., all Corpus Christi; Dave Meers & Co., 620 Washington Ave., Waco; S. P. Osburn, 1900 Fifth Ave., Fort Worth; plans from Wyatt C. Hedrick, Inc., Archts., First Natl. Bk. Bldg., Fort Worth. See Buildings Proposed-Hotels and Apartments Tex., Marshall.

Tex., Fort Worth—Lou D. Ladd, Petroleum Bldg., and George B. McCamey, W. T. Waggoner Bldg., erect 1-story brick and tile store,

Sixth and Lamar Sts.; tile and comp. roof; Joseph R. Pelich, W. T. Waggoner Bldg.

Tex., Houston—Main and Elgin Realty Co., E. C. Barkley, V.-P., San Jacinto Trust Co., erect \$60,000, 25 x 65 ft., 1 and 2-story, hollow tile and stucco, 10-store building, Main and Elgin Sts.; Carl A. Mulvey, Archt., San Jacinto Tr. Bldg.; ready for bids.

Tex., San Antonio—Jorrie Furniture Co., 421 Burnett St., has low bid at \$40,100 56x143-ft. store, San Pedro and Quincy Sts.; from H. H. Wagner, Travis Bldg., for 3-story, conc. frame, masonry walls, built-up roof, oak and conc. floors, 24,000 sq. ft. floor space; Kelwood Co., Archt., Travis Bldg.; Matthews & Kenan, Engr., Smith-Young Tower. 6-6

Va., Norfolk—Royster Investment Corp., F. S. Royster, Sec., Royster Bldg., call for bids in few days for \$100,000 improvements to Central Y. M. C. A. building, Granby and Freemason Sts., to be leased to Rice's, Inc., 322 Granby St.; plans by Calrow, Browne & Fitzgibbon, Royster Bldg., include tearing out partitions, installing elevators, refinishing interior and converting Granby St. exterior into store front. 2-14

Va., Waynesboro—C. G. Quesenberry has permit for \$20,000 store on Arch Ave.

### Theaters

Tex., Mineral Wells—Stockman-Hartman Theatre Co., H. J. Stockman and J. C. Hartman, Wichita, Kans., erect brick and Archts., 114 W. Tenth St., Kansas City, Mo. rein. conc. fireproof theatre; Boller Brothers,

### Warehouses

Fla., Gainesville—Alachua Tobacco Warehouse, Inc., H. L. Coles, Pres., erect \$10,000, 1-story, 100x300-ft. corrugated metal on frame warehouse; John E. Pierson, Archt., 230 Main St.

Mo., St. Louis—Ben Hur Erection Co., 5100 Farlin Ave., erect \$30,000, 1-story, 70x145-ft. unit at equipment storage and distributing plant.

Okl., Tulsa—Watt Plumbing Co., 608 S. Cincinnati St., O. G. Watt, has plans by N. B. Fleming, Commercial Bldg., for \$60,000, 1-story, 140x300-ft. equipment storage and distributing plant.

Tenn., Nashville—United States Tobacco Co., 1000 Harrison St., L. A. Bowers, Mgr., has permit for \$33,000, 1-story, brick, storage warehouse.

Tex., Big Spring—Texas and Pacific R. R., E. F. Mitchell, Ch. Engr., Dallas, erect fireproof freight warehouse; bids in.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

D. C., Washington—Almas Temple, A. A. O. N. M. S., erect \$200,000 conc. frame temple; razing structure on site; brick, orna terra cotta front, 4 stories and basement, 48x147 ft., Magnesite terrazzo floors, conc. foundation, slab roof; Allen H. Potts, Archt., Albee Bldg.; Chas. H. Tompkins Co., Contr., 1608 K St., N. W. 5-9

Fla., West Palm Beach—American Legion let contract to Coleman & Tinder, Comean Bldg., to complete arena, Clematis St.; \$10,000; conc. steel beams, seat 2200. 5-30

Ga., Atlanta—Following sub-contracts let on \$2,000,000 Yaarab Shrine Mosque under construction: Struct. steel, American Steel Engineering Co., 3520 Queen Lane, Philadelphia, Pa.; rein. steel, Kalman Steel Co., Candler Bldg.; partitions, Southern Fireproofing Co., 191 Spring St.; erecting rolling steel doors, Robt. McKnight Pardee, 101 Marietta Bldg.; plaster for section C, Floyd Jennings Co., 132 Cain St., N. E.; roofing and sheet metal, Claude A. McGinnis, 126 Krog St.; metal windows, David Lupton's Sons Construction Co., Bona Allen Bldg.; gypsum roof, U. S. Gypsum Co., Candler Bldg.; steel sash, Applewhite & Lawler, Citizens & Southern Bk. Bldg.; hollow metal and fire doors, Dowman-Dozier Manufacturing Co., 1314 Murphy Ave., all Atlanta; rolling steel doors, Kinnear Manufacturing Co., Columbus, O.; finish hardware, Shapleigh Hardware Co., Fourth St. and Washington Ave., St. Louis, Mo.; plaster for sections A and B, Hopton Bros., 306 Cowan St.; masonry, Fulcher & Poymor, Cotton States Bldg., both Nashville, Tenn.; Marye, Alger & Vinour, Archts., Walton Bldg., Atlanta; Howard B. Crane, Consult. Archt., New York;

Jos. B. Shaw, Supvg. Archt., Ga. Savings Bk. Bldg.; C. A. D. Bayley & Co., Inc., Contr., Red Rock Bldg., both Atlanta. 5-16

### Bank and Office

Fla., Davenport—Hollyhill Grove & Fruit Co., Lorenzo Wilson, Pres., Smith Bldg., Orlando, erect \$20,000 office bldg.; conc. block and stucco, 1 story, 43x86 ft.; M. E. Kressly, Archt., Davenport Lumber Co., Contr., Davenport.

Fla., Miami—City National Bank let contract to D. V. Godard, 268 N. W. 45th St., to remodel bldg., Flagler St.; remodel entrance; comp. roof, terrazzo floors, marble and quarry stone columns; \$64,000; R. deC. Weakley, Archt., 210 E. Flagler St. 5-9

Ga., Atlanta—Retail Credit Co., 90 Fairlie St., let contract to Southern Ferro Concrete Co., 70 Ellis St., for 6 additional stories to 3-story office bldg.; rein. conc., hollow tile, Indiana limestone, 51x150 ft. terra cotta, conc. and terrazzo floors, tar and gravel and built-up roof, steam heat, \$215,000 Morgan, Dillon & Lewis, Archts., Grant Bldg.; H. J. C. Pearson, Const. Elect. Engr., Wynn Cloughton Bldg. 5-23

La., Monroe—Dr. W. J. Hodge, 1111 Trenton St., erect \$12,000 bldg., Grand and Jack McEnery Sts.; cream colored brick, 75 x 32 ft.; Frank Russell, Contr., 1300 N. 2nd St., both West Monroe.

N. C., Hickory—Marshall H. Young, Atty., erect \$20,000 office bldg., 13th St.; 2 stories and basement, 14 offices; Luther L. Moss, Contr.

Miss., Jackson—Diebold Safe & Lock Co., Canton, O., Southern branch, 527 Carondelet St., New Orleans, La., has vault contract

for \$750,000 Merchants Bank & Trust Co. bank and office bldg.; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth, Tex.; Foster & Creighton Co., Contr., Protective Life Bldg., Birmingham, Ala. and Nashville, Tenn. 6-13

Miss., Jackson—Raymond Concrete Pile Co., Healey Bldg., Atlanta, Ga., has conc. pile contract for \$1,000,000 Jackson Tower Bldg., for Pearl Realty Co.; misc. iron and steel, Price-Evans Foundry Co., Anderson Ave., Chattanooga, Tenn.; steel toilet partitions, General Builders Supply Co., Bailey Ave., Jackson; kalamein doors, American Sheet Metal Works, 331 N. Alexander St., New Orleans, La.; terra cotta, Atlanta Terra Cotta Co., Atlanta; Claude H. Lindsley, Archt., Lamar Life Bldg.; Jackson; Gardner & Howe, Struct. Engrs., Porter Bldg., Memphis, Tenn.; O. M. Gwin Construction Co., Contr., Union Indemnity Bldg., New Orleans. 5-2

Mo., Springfield—R. A. Ollis & Co., 408 E. Commercial St., and Green County Building & Loan Assn., 416 E. Commercial St., erect \$150,000 office bldg.; rein. conc., brick and stone, 4 stories and basement, 90x100 ft.; O. L. Allen, Contr., 184 Douglas St.; excavation, Garrett Construction Co., 217% E. Commercial St.

Okl., Oklahoma City—Mid-West Enterprises, John Sinpolou, Pres., let contract to Reinhart & Donovan, Commerce Exchange Bldg., for \$1,000,000, 10-story theater and office; 2 floors for theater; upper floors of offices; John Eberson, Archt., 212 E. Superior St., Chicago. See Contracts Awarded—Theaters.

Tex., Slaton—Dr. M. C. Overton erect bldg.; brick, 22 x 40 ft.; M. O. Napps, Contr.

W. Va., Charleston—Appalachian Electric Power Co. let contract to Ward & Ward for \$250,000 office bldg., Virginia and Truslow Sts.; steel frame, stone and brick, conc. joist floors, 3 stories, 160x60 ft., conc. foundation, comp. roof; Warne, Tusker, Silling & Hutchison, Archts., Masonic Temple Bldg. 5-30

### Churches

Ala., Bessemer—First Methodist Church, G. D. Woodrow, Chmn., Bldg. Comm., let contract at \$88,900 to W. L. Coston for bldg. to replace burned structure; R. H. Hunt Co., Archt., James Bldg., Chattanooga. 5-30

Ala., Ragland—Rhodes Chapel M. E. Church, South, Rev. W. W. Levie, Pastor, erect brick and conc. bldg.; 1 story, comp. roof, hot air heat; Geo. Gehred, Archt., Lincoln Life Bldg., Birmingham; owner builds.

Ark., Little Rock—Pulaski Heights Christian Church, Rev. J. B. Hunter, Pastor, laying conc. foundation for temporary frame church; Colonial type; plans \$100,000 bldg. within 5 years.

Ark.-Tex., Texarkana—Church of Christ let contract to T. L. Bentley for \$15,000 bldg., 12th and Walnut Sts.; 60x92 ft., auditorium seat 600.

D. C., Washington—St. Matthews Lutheran Church let contract to W. E. Mooney, 2525 Pennsylvania Ave., for \$50,000 Sunday school, Kentucky Ave., S. E.; field stone and brick, 2 stories; Smith & Edwards, Archts., 1707 I St., N. W. 5-30

Fla., Palm Beach—First United Lutheran Church, Edwin Braun, Chmn., Bldg. Comm., started work on bldg., Lakeview Ave. near S. Dixie Highway; nave seat 210; stone columns, leaded glass windows, wood beam ceiling; Fredk. G. Seelman, Archt., Phipps Plaza.

Fla., West Palm Beach—St. Patrick's R. C. Church, Colored, let contract to D. F. Paddock Building Co., Harvey Bldg., for \$25,000 bldg., Sapodilla Ave. and Fourth St.; stucco, hollow tile, stone trim, tower; L. Phillips Clark, Archt., Guaranty Bldg. 4-25

Ga., Atlanta—Georgia Conference Assn., 547 Cherokee Ave., S. W., erect \$15,000 church 115 Ashby St., S. W.; cinder block, 1 story and basement, wood floors, comp. roof; owner builds.

La., Hammond—First Baptist Church, Rev. Wm. E. Hathorn, Pastor, erect bldg.; W. E. Keller, Constr. Supt.

N. C., Charlotte—Statesville Ave. A. R. P. Church let contract for \$36,000 Gothic type bldg. to J. A. Gardner Construction Co.; brick, stone trim, auditorium seat 500; Louis H. Asbury, Archt., 1514 E. Fourth St. 5-23

Ola., Kingfisher—Baptist Church let contract at \$23,970 to Jas. Klostermeyer, Perry, for bldg.; brick and conc., 2 stories, 42x103

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

ft., pine floors, rigid asbestos roof, gas steam heat; Roy W. Shaw, Archt., Masonic Bldg., Enid.

Ala., Montgomery—H. I. Flinn, 1125 S. McDonough St., erect 2 brick veneer dwellings, Fairview Ave.; 1 story, wood floors, comp. roofs; \$15,000; owner builds.

Okl., Kingfisher—First Christian Church let contract at \$11,220 to Grant M. Buxton, Enid, for brick bldg.; 2 stories and basement, 100x42 ft.; R. W. Shaw, Archt., Masonic Bldg., Enid.

Ala., Montgomery—Carl Moore erect \$18,000 residence; brick, 2 stories and basement, hardwood and tile floors, slate and comp. roof; R. Kenyon Perry, Archt., Mortgage Guar. Bldg., Atlanta, Ga.; West Point Iron Works, Contr., West Point, Ga.

Tenn., Germantown—Methodist Church let contract to J. H. Morton, Williston, for \$10,000 bldg.; stone and brick veneer, 2 stories, 34x65 ft., hardwood floors; basement in; A. F. Hansen, Archt., Shrine Bldg., Memphis. See Want Section—Building Material and Equipment.

Ala., Opelika—Peppell Manufacturing Co. let contract to Batson-Cook Co., West Point, Ga., for 60 operatives' dwellings, connection with plant enlargement.

Ark., Fort Smith—W. C. Morris, 11 S. Sixth St., erect \$18,000 residence, Free Ferry Rd.; stone veneer, hardwood floors; W. D. Strong, Contr., 1303 Towson St.

D. C., Washington—Capt. R. C. D. Hunt, 6200 Wisconsin Ave., Chevy Chase, and Judge Henry J. Hunt, 3rd, 6400 Wisconsin Ave., Chevy Chase, erecting dwellings, Chevy Chase Gardens: ultimate plans call for 500 dwellings, including 75 about completed; constr. by owners.

D. C., Washington—Otis F. Glenn, 2435 California Ave., N. W., erect \$20,000 addition to residence, 2435 California St., N. W.; brick, 3 stories and basement; Davis, Wick, Rosengarten Co., Inc., Contr., 1406 G St., N. W.

D. C., Washington—L. E. Breuninger & Son, Colorado Bldg., have permit for \$11,000 dwelling, 1332 Jonquil St., N. W.; brick, 2 stories; owners build.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., erect \$21,000 dwelling, 4939 Indian Lane, N. W.; brick, 2 stories; owners build.

Va., Woodstock—Christian Church erect \$40,000 stone and brick bldg.; slate roof, vapor heat; chapel, Sunday school and community rooms; Mims, Speake & Co., Archts., San Antonio; W. O. Crawford, Contr., Yeakum.

Fla., Canal Point—Southern Sugar Co. let contract to Crow Bros., Clewiston, for 20 frame bungalows; 3 and 4 rooms, Celotex.

Fla., Fort Pierce—J. Eric Schwartz, Hamilton, O., erect frame and stucco winter residence; 1½ stories, 6 rooms; contract let.

Fla., Miami Beach—Mrs. J. L. Sibley erect residence and garage, N. Alton Rd.; Lee L. Wade, Archt., Exchange Bldg., Miami; constr. by J. L. Sibley, 3000 Prairie Ave.

Fla., Miami Beach—Geo. H. S. Rowe, Pine Tree Drive, erect \$20,000 conc. block and rein. conc. residence; tile and comp. roof; Aug. Gelger, Archt., 58 S. E. Seventh St.; Gunn & Goll, Inc., Contr., Security Bldg., both Miami.

Fla., Miami Beach—A. D. Lasker, 4975 Collins Ave., let contract to John B. Orr, Inc., 147 N. E. 6th St., for conc. wall, swimming pool, patio, dressing rooms and latticed greenhouse; \$35,000; golf links planned later in connection with landscaping.

Fla., Miami Beach—Wm. C. Schott, care C. R. Clark, Contr., Bastian Bldg., erect \$22,500 residence; Collins Ave. near Lincoln Rd.; conc. block and rein. conc., 2 stories, tile and comp. roof; plans by Contr.

Fla., Miami Beach—Edna W. Smith, care C. R. Clark, Contr., Bastian Bldg., erect \$15,000 residence, La Corce sub-division; conc. block and rein. conc., 2 stories, tile and comp. roof; V. H. Nellenbogen, Archt.

Fla., Palm Beach—Mrs. Charles Amory let contract to Consolidated Engineering Co., 20 E. Franklin St., Baltimore, Md., for \$175,000 residence; Gordon Beecher, Archt., 12 E. Pleasant St., Baltimore.

Fla., Sarasota—Powel Crosley, Jr., Mercantile Library Bldg., Cincinnati, O., let contract to Paul W. Bergmann, 325 E. 11th St., for 18-room Mediterranean type residence, 63-acre tract, Tamiami Trail; clearing and grading, Jack Crawford, First Bk. & Tr. Bldg., tile and stucco, tile floors, steel casements and beams; Roman type swimming pool, 2 sun parlors, seawall, dredge channel, construct boat slips; landscape about half of property; Albee Freeman, Archt., Blackburn Bldg., Sarasota.

Fla., St. Augustine—Aug. Heckscher, 50 E. 42nd St., New York, started work on bungalow type winter residence, Anastasia Island; 12 rooms, 7 baths; about \$40,000; cypress shingles, 1 story, rift yellow pine and oak floors, Spanish tile roof, conc. foundation, 3-car garage, electrically equipped for ice, heat, light and cooking; swimming pool in court; 7½ acres of park; artesian wells; constr. under supervision of Gould T. Butler, Engr., 57 Charlotte St., St. Augustine; lumber, brick, lime and cement, Coardi Lumber Co., 50 Bernard St.; elect. work, Crutchfield Electrical Shop, St. George St.; plastering, N. W. Cooley, 157 S. Oneida St., artesian wells and water supply, Gray Artesian Well Co., all St. Augustine; roofing tile, Ludowici-Celadon Co., 104 S. Michigan Blvd., Chicago.

Ala., Birmingham—R. L. Stewart, 2102 S. 24th St., let contract to Paramount Construction Co., 2026 N. Fourth Ave., for \$25,000 residence; native stone, 2 stories, clay tile roof, vapor steam heat; Turner & Slater, Archts., Martin Bldg.

Ala., Birmingham—R. J. Stockham, 3220 N. 24th St., let contract to Paul Bros., 2337 Twentieth St., South, for \$35,000 residence, Mountain Brooke Estates; 2 stories, 35x85 ft., oak floors, conc. foundation, slate roof; Chas. H. McCauley, Archt., Jackson Bldg. See Want Section—Building Material and Equipment.

III.; lighting, heating and ice plant, Florida Power & Light Co., Miami.

Ga., Atlanta—Wm. E. Huger, 550 Cresthill Ave., N. E., let contract at \$41,750 to Gilbert Beers, Bona Allen Bldg., for face brick residence, Valley Rd.; 2 stories and basement, 85 x 101 ft., conc. footings, hardwood and tile floors, Buckingham Virginia slate roof; Pringle & Smith, Archts., Norris Bldg.

Ga., Atlanta—W. C. Deadwyler, 104 Palatka St., S. E., erect dwellings, 348-54-60-66 Neims St. N. E., and 349 Clifton Rd.; brick veneer, 1 story and basement, comp. roofs; \$25,000; owner builds.

Ga., Atlanta—Mrs. J. D. Francis Herreshoff, 781 Myrtle St., N. E., let contract to Collins, Holdbrook & Collins, Atlanta Tr. Co. Bldg., for \$35,000 residence; face brick and Briar Hill sandstone, 2 stories and basement, conc., tile and hardwood floors, Buckingham Virginia slate roof; Wm. J. J. Chase, Archt., 140 Peachtree St., N. E.

Ga., Atlanta—D. R. Mathews, 617 Moreland Ave., N. E., erect English type brick bungalow, Callan Circle, N. E.; Cinter-Melon Corp., Contr.

Ga., Atlanta—E. W. Reid, 1696 McLendon Ave., erect English type brick veneer residence, Belvedere Drive Cascade Heights; Cinter-Melon Corp., Contr.

Ga., Atlanta—A. N. Canton, 2840 Peachtree Rd., erect two \$25,000 dwellings, W. Andrews Drive and Auseel Way; Georgian type, brick veneer, 2 stories and basement, hardwood and tile floors, stone trim, slate roofs; owner builds.

Ga., Atlanta—Wm. E. Mitchell, care Georgia Power Co., erect \$45,000 residence, Andrews Drive; fireproof, stone and brick, 2 stories and basement, conc. footings, hardwood, marble and tile floors, tile partitions, slate roof; Empire Construction Co., Contr., Elect. & Gas Bldg.

Ga., Augusta—Dr. A. J. Kilpatrick, Seventh and Greene Sts., let contract on cost plus basis to C. B. Holley, Walton Way and Monte Sano Ave., to rebuild and enlarge Colonial dwelling; 3 stories, old pine floors, slate roof; Scroggs & Ewing, Archts., S. F. C. Bldg.; foundation in.

Ky., Owensboro—Dr. O. Rash erect \$18,000 residence; brick and tile, 2 stories and basement, 60 x 30 ft.; Alfred E. Neucks, Archt., Old Natl. Bk. Bldg., Evansville, Ind.; Davis & Hagen, Contrs.

La., New Orleans—Feliz Kuntz, 820 Perdido St., erect \$15,000 duplex, Baronne St. near Dufossat St.; brick veneer, slate roof; Denis & Handy, Contrs., 823 Perdido St.

La., New Orleans—L. Aronson, Canal Bk. Bldg., erect 3 duplexes, Gen. Pershing St. near Octavia St.; 34 x 34 ft., asbestos roofs; \$10,000.

La., New Orleans—Geo. J. Lupo, Contr., 3419 Milan St., erect double dwelling, Highland and St. Louis Sts.; ready about 10 days for sub-bids.

La., New Orleans—G. S. Metzher erect 2 duplexes, Burthe St. near Freret St.; 2 stories, asbestos roofs; \$12,500; Henri G. DeFraites, Contr., 304 Camp St.

La., New Orleans—E. L. Markel, 3838 Louisiana Ave. Pkwy., erect duplex, 8316 Spruce St. and single raised dwelling, Jefferson Ave. near Franklin St.; asbestos roofs; \$10,000; owner builds.

La., New Orleans—L. Aronson, Canal Bk. Bldg., erect 3 duplexes, Octavia and Gen. Pershing Sts.; asbestos roofs; \$10,000.

Md., Baltimore—Chas. C. Sanford, 11 E. Lexington St., erect 6 frame dwellings and garages, 3002-12 Oakcrest Ave.; 1½ stories, 26x30 ft., steam heat; Howard R. Mason, Archt., 909 Cathedral St.

Md., Baltimore—Frank Marine, 2 E. Lexington St., erect 16 stone and brick dwellings, 900-30 S. Ponca St.; 2 stories, 16.3 x 40 ft., hardwood floors, asphalt roofs, hot water heat; \$35,000; David Harrison, Archt., 1322 N. Central Ave.; owner builds.

Md., Baltimore—T. T. Tongue, 30 S. Calvert St., erect \$12,000 residence and garage, 700 Benston Place; 2 stories, 43x62.4 ft., slate roofs, hot water heat; H. A. Stilwell, Archt.; Ceyton B. Strobel Construction Co., Contr., both 206 E. Lexington St.

Md., Baltimore—Alex. C. Kidd erect \$15,000 residence and garage, 5205 Burlington Way; frame, 2½ stories, 41x38 ft., slate roof, hot water heat; H. A. Stilwell, Archt.; Peyton B. Strobel Construction Co., Contr., both 206 E. Lexington St.

Md., Baltimore—Robinson & Slagle, Inc., American Bldg., erect 6 dwellings and garages, 200 block Ridgemere Rd., Tuscany; brick and stucco, 2 stories; \$42,000; owners build.

Md., Baltimore—Dubbeldee Realty Co., Gwynns Falls Pkwy. and Longwood St., erect 9 brick dwellings, 500 block E. 36th St.; 2 stories; \$31,500.

Md., Baltimore—Donohue Home Building Co., Lexington Bldg., erect 38 dwellings, 1200 block Loney's Lane, and 3100 block E. Biddele and E. Preston Sts., after plans by J. J. Murphy; brick, 2 stories, 15.6 x 40 ft. and 15 x 38 ft.; Carey roofs, hot water heat; \$76,000; owner builds. 5-30

Miss., Yazoo City—Robt. C. Colhoun, Jr., erect bungalow, Bee Lake Plantation; Granthan & Srite, Contrs.

Mo., Ferguson, St. Louis—C. M. Shirley, 5794 McPherson Ave., let contract to Harper & Koeln, 707 Darst Rd., for residence; \$12,000; brick, 2 stories and basement, hardwood floors, asphalt shingle roof, hot air heat; L. Baylor Pendleton, Archt., DeMenil Bldg., St. Louis. 6-13

Mo., St. Louis—Geo. F. Gaertner, 3965 Palm St., erect brick residence, Purdue Ave.; 2 stories and basement, 51x55 ft., slate roof, hot water heat; Schulte & Tarling, Archts., Grand-St. Louis Bldg.; F. F. Meckfessel Construction Co., Contr., 6625 Delmar Blvd.

Mo., St. Louis—B. A. Miller, 4165 Pleasant Ave., erect \$12,000 brick duplex, 4601 Bessie Ave.; 1 story and basement, 33x52 ft., tile bath, hardwood floors, asphalt shingle roof, hot air heat; Henry Schaefer, Contr., 7320 Eugene Ave.

Mo., St. Louis—K. W. Miller, 5534 Rhodes St., erect 4 dwellings, Rhodes St.; brick, 1 story, 26 x 45 ft., comp. roofs, hot air heat; plans and constr. by owner.

Mo., St. Louis—Leroy Weidle, Pres., V. F. Knight Drug Co., 3115 S. Grand Blvd., erect \$35,000 residence, Richmond Heights; brick, 2 stories; Gerhard Becker, Archt., 425 Georgia Ave., Ferguson; Aug. Winkel & Sons, Contrs., 1810 Leffingwell St.

Mo., St. Louis—Perry Topping, care Chas. R. Greene, Archt., Wainwright Bldg., erect brick residence, Price and Ladue Rds.; 2 stories and basement, 39x63 ft., 2 tile baths, terrazzo and hardwood floors, asbestos shingle roof, hot water heat, oil burner; H. M. Edmunds Building Co., Contr., 16 N. Eighth St.

Mo., St. Louis—Louis F. Desloge, 37 Almeda Ave., erect brick residence, York Drive, Moorlands; 2 stories, basement and attic, 50x38 ft.; H. May Steinmesch, Archt., 1102 Blenden Place; Geo. T. Burdeau, Contr., 301 Chestnut St.

Mo., St. Louis—G. W. Sturmels, 4529 Tower Grove Place, erect 6 brick dwellings, 3600 block Marceline Terrace; 2 stories, 25 x 45 ft., comp. shingle roofs, hot air heat; \$48,000; plans and constr. by owner.

Mo., University City, St. Louis—Grover C. Sibley, 6238 Cabanne St., erect \$10,000 brick residence, 716 Pennsylvania Ave.; 2 stories, 38 x 38.7 ft., slate roof, hot water heat, oil burner; Frank Heusen, Archt., 12th and Market Sts.; Jones Construction Co., Contr., 1427 N. Hanley Rd.

N. C., Swannanoa—Beacon Manufacturing Co., Frank E. Laycock, Supt., let contract to Black Mountain Lumber Co., Black Mountain, N. C., for 42 operatives' dwellings and 19 garages; frame and brick, 3-room duplexes and 4 and 5 room single dwellings; Geo. B. Barker, Constr. Engr., Swannanoa; Knight C. Hammond, Archt.-Engr., Providence, Rhode Island. 5-9

S. C., Aiken—W. R. Grace, Westbury, Long Island, let contract to North-Eastern Construction Co., Nissen Bldg., Winston-Salem, N. C., and 101 Park Ave., New York, for winter residence, servants' quarters, stables, garages and outhouses.

S. C., Aiken—Mrs. R. S. Linsley, New York, let contract to Anderson, Stieffel Construction Co., Aiken, for \$36,500 weatherboard residence, garage and servants' quarters and stables; 2 stories; Willis Irvin, Archt., S. F. C. Bldg., Augusta, Ga.

S. C., Aiken—W. H. Pardue erect Colonial residence; 2 stories, cypress shingle; Scroggs & Ewing, Archts., S. F. C. Bldg., Augusta; McGhee & McGhee, Aiken, gen. contract at \$18,975.

Tenn., Memphis—Howser & Higbee, 1852 Glenview Ave., erect 2 brick veneer dwellings, 1824-26 Glenview; 1 story and basement, 28x46 ft., oak floors, tile bath, comp. roof, hot water heat; \$10,000; H. H. Higbee, Contr., Porter Bldg.

Tex., Amarillo—Carl Hare erect \$12,000 residence, 2618 Ong St.; brick 1 story and basement, 36x49 ft., shingle roof; W. P. Cooper, Contr., 3907 Harrison St.

Tex., Amarillo—P. L. Reppert erect \$15,000 residence, 2615 Hayden St.; stucco, 2 stories, 36x46 ft., clay tile roof; Reppert Lumber Co., Contr., 1410 W. Sixth St.

Tex., Fort Worth—Dr. Earl Harris, Medical Arts Bldg., erect \$11,000 residence, 2005 Warner Rd.; brick veneer, 1½ stories, 57x43 ft.; Stewart Moore, Archt., Flatiron Bldg., J. W. Ball, Contr., 1620 Irma St.

Tex., Fort Worth—Bundock Building Co., 1813 Eighth Ave., erect \$16,000 dwelling and garage, 1400 Washington Terrace; brick veneer, 2 stories and basement, 40x40 ft., oak floors, tile baths and roof; owner builds.

Tex., Midland—City let contract at \$31,241 to J. O. Everett, 1909 N. Harwood St., Dallas, for city hall and fire station; 2 stories, 75x88 ft., rein. conc. and terrazzo floors, tile and built-up roof; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth. 6-6

Tex., Houston—J. B. Caldwell erect \$15,000 residence, 2216 Stanmore Drive; brick veneer, 7 rooms; Benson-Hall Co., Contr., Post Dispatch Bldg.

Tex., Houston—H. H. Bradley, 1601 Alamo St., erect residence, Burns St., Colonial Terrace.

Tex., San Antonio—Wm. M. Fordtran, Gunter Bldg., erect Spanish type residence, Olmos Park; tile and stucco, 2 stories, tile roof; Atlee B. & Robt. M. Ayres, Archts., Bedell & Bldg.; W. E. Simpson & Co., Inc., Engrs., Natl. Bk. of Commerce Bldg.; Woodward & Hardie, Contrs., 230 Seguin St.

### Government and State

Miss., Biloxi—U. S. Property and Disbursing Officer for Mississippi, Jackson, let contract at \$34,020 to E. E. Carroll, 718 Second St., Gulfport, for mess hall and kitchen, Camp McClellan; 1 story, 34 x 172 ft., conc. foundation, comp. roof; Shaw & Woleben, Archts., Gulfport; work started. 6-6

Tex., Wichita Falls—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract to C. E. Litchfield, 1807 Buchanan St., Wichita Falls, to erect post office sub-station, 1510 Monroe St.; brick, 1 story, 75x80 ft.

Va., Hampton Roads, Norfolk—Bureau of Yards and Docks, Navy Dept., Washington, D. C., let contract at \$102,666 to Virginia Engineering Co., Inc., First Natl. Bk. Bldg., Newport News, Va., for distributing systems, Naval Operating Base.

### Hospitals, Sanatoriums, Etc.

La., New Orleans—Tulane University, A. B. Dinwiddie, Pres., let contract to Geo. J. Glover Co., Inc., Whitney Bldg., for \$1,000,000 Hutchinson Memorial Medical Bldg., adjoining Charity Hospital; steel, brick and terra cotta, stone trim, fireproof, pile and rein. conc. foundation, plastered interior, conc. and terrazzo floors, tile and marble work, steel sash, built-up comp. roof, refrigerating system; Favrot & Livaudais, Ltd., Archts., Hibernalia Bldg. 5-23

La., Shreveport—Tri-State Hospital, Inc., let contract at \$65,000 to R. G. Shisler Construction Co., 510½ Spring St., for fireproof sanitarium, Greenwood Rd.; rein. conc. brick and tile, 3 stories, 13,000 sq. ft. floor area, tile and conc. floors; furnishings, equipment, etc., \$25,000. See Want Section—Building Material and Equipment. 6-6

Mo., St. Louis—Barnes Hospital, owned and operated by M. E. Church, South, let contract to James Black Masonry & Construction Co., Loudermilk Bldg., for brick and rein. conc. surgical bldg.; 7 stories and basement, T shape, 147x57x50 ft.; Trueblood & Graf, Archts., Chemical Bldg. 9-13

Mo., St. Louis—Lahey Heating & Ventilating Co., Merchants Exch. Bldg., has heating contract for Salvation Army hospital; wiring, Metropolitan Electric Co.; plumbing, John B. Moore; H. G. Clymer, Archt., Wainwright Bldg. 12-6

N. C., Newton—Catawba County Comr., erecting 50-bed children's hospital under supervision of Luther L. Moss, Hickory; brick and steel, 1 story and basement, 60x120 ft., wood floors, fireproof roof; Q. E. Herman, Archt., Hickory; M. E. Beatty, Engr., Newton. 5-30

Tex., Dallas—Dr. Ramsay Moore and Dr. Guy Little, Medical Arts Bldg., erecting \$30,000 clinic, Fairmount and Hood Sts.

### Hotels and Apartments

Ark., Fort Smith—The Ashton Glassell Co., Inc., Box 1383, Shreveport, La., general contractor for \$600,000, 11-story Ward Hotel under construction for Ormond Griffin and as-

sociates, St. Louis, awarded following sub-contracts: Stone, Algonite Stone Manufacturing Co., 4606 Chippewa St., St. Louis; millwork, Dyke Bros., S. Ninth St., Fort Smith; plumbing, heating and refrigeration, El Dorado Plumbing & Heating Co., El Dorado; electric wiring and fixtures, The Electrical Shop, 216 Texas St., Shreveport; lathing and plastering, Williamson-Green Co., Dallas Natl. Bk. Bldg., Dallas, Tex.; painting and decorating, Paul M. Heerwagen, Fayetteville, Ark.; mail chute, Cutler Mail Chute Co., Rochester, N. Y.; elevator contract let; Marcel Boulicault, Archt., 411 N. Seventh St., St. Louis. 10-25-28

D. C., Washington—Frederick J. Rice, Investment Bldg., erect \$75,000, 1 and 2-story addition to apartment hotel, 4618 Fourteenth St., N. W.; brick, steel and conc.; Wardman Construction Co., Archt.-Contr., 1437 K St., N. W.

Fla., Pass-A-Grille—Logan Bros., 916 Citizens Bk. Bldg., Tampa, have contract for \$250,000, 2-story and basement, 260 x 130 ft., conc., hollow tile and stucco, 28-unit cooperative apartment; tile roof; Hadley & Nordstrom, Archts.-Engrs., 356 Central Ave., St. Petersburg.

Fla., St. Petersburg—Lyman H. Miller and Hugo Lindner let contract to Julius Johnson for \$50,000, 3-story, brick, 50-room Hotel Ritz, 3rd Ave. and 7th St. south; foundation started; Edgar Ferdinand, Archt., Sunmer Bldg. 6-6

Ga., Atlanta—W. W. Cary, 522 Rankin St., S. E., erect \$20,000, 2-story and basement, 36 x 70 ft., brick veneer, 8-apartment; comp. roof, hardwood and tile floors; owner builds, day labor.

Ga., Atlanta—Paul O. Stribling, 18 Avery Drive, N. E., convert residence into apartment; \$15,000, 4 units, 3 rooms and bath, brick veneer, comp. roof, tile baths, wood floors; owner builds.

Ga., Augusta—Partridge Inn, Morris W. Partridge, Pres.-Mgr., let contract to H. G. Jacobs, Atlanta, for 5-story, fireproof, 25-room annex and remodeling present building; install sprinkler system; \$100,000; Willis Irvin, Archt., S. F. C. Bldg. 5-2

Miss., Jackson—A. M. & T. M. Tharp considering plans for erecting 2 apartments; owners build.

Mo., Richmond Heights, St. Louis—F. J. Pfeifer, 3657 Lafayette St., St. Louis, let contract to D. Estaque, 7530 Ethel St., for 2-story, brick 6-apartment, Gissler Ave.; F. G. Avis, Archt., 1021 Big Bend Road, St. Louis.

Mo., St. Louis—Roosevelt Construction Co., 5818 Roosevelt Place, has permit for four 2-story, 34x54-ft. brick tenements, 3756-66 and 3752 Dunnica St.; 3 garages; asphalt comp. roofs; \$68,000; owner builds.

Mo., St. Louis—O. F. & L. Erbs, 3311 Vista St., erect \$10,000, 2-story, 29x52-ft. brick tenement, 3928 Wilmington St.; certain-teed shingle roof; F. Erbs, Archt., Bldr., 3852 Federer Place.

Mo., St. Louis—J. J. Stueber, 5426 Ruskin St., erect \$12,000, 2-story, 37x48-ft. brick tenement, 2110-12 E. Warne St.; A. Hoffschwelle, Bldr., 2037 E. Prairie Ave.; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—J. F. McDermott, Pres., Arlington Securities Co., 216 Holland Bldg., erect four 2-story, brick 14-apartments, Labbie and Newstead Sts.; E. J. Hess, Archt., Title Guaranty Bldg.

Mo., University City, St. Louis—J. Walpert, 7350 Lindell Blvd., erect \$18,000, 2-story, 55x61-ft. brick 4-apartment, 7331 Forsythe Blvd.; N. M. Kaplan, Contr., Am. Tr. Bldg.; Ben Shapiro, Archt., Syndicate Tr. Bldg.

Okla., Norman—David M. Logan, Huckins Hotel, started work on \$65,000, 3-story and basement, 50 x 110 ft., brick and steel apartment; oak floors, comp. roof; Musgrave Construction Co., Contr., Cotton Exchange Bldg.; Thos. L. Sorey, Archt., Perrine Bldg., all Oklahoma City. 6-13

Okla., Oklahoma City—Fred C. Switzer, Shops Bldg., started work on \$50,000, 3-story, rein. conc. and brick apartment, 1313-15 N. Broadway; Brown Construction Co., Contr.

Okla., Oklahoma City—Swan Loan & Investment Co., E. S. Swan, Fidelity Natl. Bldg., started work on 5-story, 40x136-ft., brick and rein. conc. 75-apartment, 700 W. 11th St.; W. R. Lowe, Contr., 405 W. 12th St.; Maurice Jayne, Archt., 317 W. Park St., Maurice Jayne, Archt., 317 W. Park St. 6-13

Tex., Houston—E. C. King, 1006 Milby St., let contract to C. C. Rouse, Bankers Mortgage Bldg., for \$10,000, 4-apartment, 6008 Avenue R in Central Park.

Tex., Van Horn—Southwestern Hotels, Inc., let contract to R. E. McKee, 1916 Texas St., El Paso, for \$150,000, 2-story, 160x100-ft.,

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

rein. conc., brick and tile hotel; conc. floors, tar and gravel roof; Trost & Trost, Archts., Box 271, El Paso. See Want Section—Building Material and Equipment. 6-13

## Miscellaneous

Fla., Miami Beach—J. Marquette Phillips, 432 W. 41st St., erect \$15,000 conc. block and rein. conc. studio building; tile and comp. roof; owner builds.

Fla., Palm Beach—Palm Beach Anglers and Sports Club let contract to Chalker & Lund, Harvey Bldg., for addition to clubhouse.

Ky., Anchorage — Synodical Presbyterian Orphanage of Southern Church, J. Lithgow Smith, Chmn., Blg. Comm., erect \$35,000, 2-story and basement, 5x75-ft. brick and steel Ella D. Boone Cottage, first unit of \$200,000 building program; H. Frank, Contr., Anchorage; Nevin, Wischmeyer & Morgan, Stark's Bldg., Louisville. 3-14

Miss., Pascagoula—A. Ziegenfelder, Gulfport, has contract for \$20,000 for Sister Anne Christian residence in East Pascagoula.

Miss., Jackson—Wright & Ferguson, 239 Amite St., let contract at \$28,151 to Thomas Scott, Capital Natl. Bk. Bldg., for 2-story, 40x56 ft., hollow tile and stucco funeral home; chapel, 25x40 ft.; 12-car garage; Hull & Malvane, Archts., Merchants Bank & Trust Co. Bldg. 5-30

Mo., St. Louis—Calvary Cemetery Assn., First Natl. Life Bldg., let contract to St. Louis Contracting Co., 4417 Clayton Ave., for entrance gate, column and walls, W. Florissant and Calvary Aves.; \$25,000; iron gates, Flour City Ornamental Iron Co., Ry. Exchange Bldg., St. Louis, and Minneapolis, Minn. 4-11

S. C., Columbia—Association for Blind let contract at \$34,800 to Seastrunk & Shand, 2132 Divine St., for 2 buildings for Home for Blind; 42 x 93 ft. and 67 x 42 ft., brick and stucco, wood floors, slate and built-up roof; all material purchased; C. C. Wilson, Archt., Palmetto Bldg. See Want Section—Machinery and Supplies. 6-13

Tenn., Chattanooga—T. S. Mundy & Co., Chamberlain Bldg., have contract for Cavern Castle; \$33,000.

## Schools

Fla., Gainesville—University of Florida let contract to MacDougald Construction Co., 545 Angier Springs Rd., Atlanta, Ga., for 60x150-ft. conc. swimming pool; Rudolph Weaver, Archt., Peabody Bldg. 6-6

Fla., Miami—Dade County Bd. of Public Instruction let contract at \$77,710 to David Shaw, 151 N. E. Third St., for gymnasium; Harold M. Mundy, Archt., 218 N. E. Fifth St.

Ga., Atlanta—Fulton County Bd. of Education, Jere Wells, Supt., let contract at 8228 to G. F. Wells, Hapeville, for 1-story, 45x85 ft., brick veneer Mason School; hard-wood floors, brick foundation, comp. roof; at \$9784 to M. C. Cline, Bolton, for 1-story, 54x92 ft., brick veneer Rossville School; Cooper & Cooper, Archts., Bona Allen Bldg. 6-13

Ga., Milner—Milner Consolidated School Dist. Trustee, H. T. Sikes, Chmn., let contract to Gresham Manufacturing Co., Griffin, for \$30,000, 1-story and basement, brick veneer school; comp. roof, wood floors; E. C. Wachendorff, Archt., McGlawn-Bowen Bldg., Atlanta. 5-23

Ga., Monroe—E. M. Williams has contract for gymnasium at Monroe Agricultural and Mechanical School; brick, comp. roof; Wm. J. Chase, Archt., 140 Peachtree St., Atlanta.

Ky., Sardis—Mason County Bd. of Education, George Turnipseed, Supt., Maysville, let contract at \$31,650 to Stevens & Munsey, Berea, for school.

La., Arabi—St. Bernard Parish School Bd., Mrs. L. A. Meraux, Pres., let contract at \$51,370 to J. A. Petty & Sons, Inc., Godchaux Bldg., New Orleans, for 2-story, rein. conc., brick, stone trim school and auditorium; Wm. R. Burk, Archt., Balter Bldg., New Orleans. 6-6

Md., Chestertown—Washington College, P. E. Titsworth, Pres., let contract to H. B. Pilchard, Pocomoke City, for \$50,000, 3-story brick dormitory on Washington St.; Hopkins & Burton, Archts., 347 N. Charles St.; J. Posey, Mech. Engr., 201 Franklin St., both Baltimore. 6-13

Miss., Columbia—Mississippi State Building Comm., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, let contract at \$48,101 to W. S. Rutter, Brookhaven, for additions and repairs at Mississippi Industrial and Training School; Vinson B. Smith, Archt., Bank of Gulfport, Gulfport. 5-16

Miss., Indianola—Indianola School Dist. Trustees let contract at \$60,521 to W. C. Owen & Co., Dermon Bldg., Memphis, Tenn., for additions and alterations to school; 2 stories, frame, brick, steel, wood floors built; Regan & Weller, Archts., Dermon Bldg., Memphis, Tenn. 6-13

Miss., Newton—School Bd., J. G. Bridges, Supt., let contract to Lockard & Vaughan, Meridian, for \$135,000, 1-story, 275x300-ft., rein. conc., brick, stone trim school to replace burned structure; plumbing and heating, Paine Heating Co., 127 S. State St.; electric wiring, clock, program system, Fatheree Electric Co., 157 E. Capitol St., both Jackson; Hull & Malvane, Archts., Merchants Bk. Bldg., Jackson. 6-13

Miss., Oxford—Mississippi State Building Comm., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, let contract at \$350,947 to Garber & Dickson, Jackson, for \$100,000 high school, \$200,000 graduate school, \$200,000 hospital and 5 cottages, to cost \$50,000, at University of Mississippi; heating and plumbing, Alonzo B. Hayden, Pass Christian; electric, Thompson Electric Co., Memphis, Tenn.; rein. conc., brick, hollow tile, Indiana limestone and cast stone trim, struc. steel, interior marble and tile work, terrazzo, conc., tile and comp. floors; Frank P. Gates, Archt., Edwards Hotel Bldg., Jackson. 5-16

Mo., Carrollton—Bd. of Education let contract at \$96,377 to E. Page, Marshall, for two 1 and 2 story, brick grade schools; Owen, Sayler & Payson, Archts., Interstate Bldg., Kansas City. 2-28

Mo., Farber—School Bd. let contract at \$39,888 to Barenfanger Bros., Salem, Ill., for 2-story, brick, grade and high school; Wm. Hampe, Archt., Buder Bldg., St. Louis. 5-2

Mo., St. Louis—Hancock School Dist., 9400 S. Broadway, soon start work on 2-story and basement, 67 x 65 ft., brick school; Klosser & Co., Contr., 3317 Meramec St.; Chas. H. Wray, Archt., Rialto Bldg. 6-13

Okla., Cheyenne—Bd. of Education let contract to F. A. Thompson, Cordell, for \$25,000, 1-story brick and stone school; Guy C. Reid, Archt., Elks Bldg., Oklahoma City.

Okla., Putnam City—Bd. of Education let contract to Shafer-Reynolds, Inc., Oklahoma City, for \$35,000, 1-story, 50x270-ft. brick and stone school; Guy C. Reid, Archt., Elks Bldg., Oklahoma City. 1-31

Tex., Austin—Bd. of School Trustees, E. A. Murchison, Pres., let contract at \$16,140 to B. M. Spears, 1405 Newton St., for 2-story, 57x48.10 ft., brick and rein. addition to Wooldridge School; cafeteria and 2 classrooms; cement floors, comp. roof; H. F. Kuehne, Archt., Littlefield Bldg. 5-30

Tex., Austin—University of Texas Bd. of Regents, J. W. Calhoun, Comptroller, let contract at \$118,569 to H. E. Wattinger, 401 Paul St., Austin, for alterations and addition to Mechanical Engineering Bldg.; 1-story, brick, hollow tile, steel, rein. conc., fireproof; plumbing, \$3364, Jno. L. Martin, 410 Congress Ave., Austin; heating, \$12,051, Dallas Heating & Ventilating Co., 2422 Alamo St., Dallas; Herbert M. Greene, LaRoche & Dahl, Archts., Construction Industries Bldg., Dallas. 5-23

Tex., White Deer—Harrison & Smyth, Plainview, have contract for gymnasium at White Deer and school at Skellytown; \$40,000.

Va., Matoaca—Chesterfield County School Bd., Chesterfield, let contract to E. L. Bass, 708 Bainbridge, Richmond and, Law Office Bldg., Petersburg, for 5-classroom and auditorium additions to Colonial Heights and Ettrick schools; also for improvements to schools in Matoaca; \$47,000. 6-13

Va., Roanoke—Roanoke College, Dr. Charles J. Smith, Pres., let contract to J. F. Barbour & Sons, Colonial Natl. Bk. Bldg., for \$120,722, 180x72 ft., gymnasium; the swimming pool, 20x60 ft., in basement; Frye & Frye, Archts., MacBain Bldg., will supervise construction; also plans following improvements during 5-year period: science hall, \$150,000; rebuild library, \$50,000; complete stadium, \$30,000; \$15,000 for walks and driveways.

W. Va., Bluefield—Beaver Pond School Dist. let contract to Lilly Brothers, Bradmann Bldg., and C. C. George for first unit of Whitethorn primary school; \$12,000; Garry & Sheffey, Archts., Bailey Bldg.

W. Va., Charleston—Bd. of Education, E. A. Babcock, Sec., receives bids July 9 for 18-classroom and auditorium school on Orange St. near West Ave.; separate bids on general contract, heating and plumbing and electric wiring; plans from Warne,

Tucker, Silling & Hutchisson, Archts., Masonic Temple Bldg. 3-28

## Stores

Ark., Little Rock—Goad Grocery Co., W. A. Goad, Mgr., 2323 Wright St., erect \$10,000 brick store, 2323 Wright Ave.; Seth Wagner Co., Contr., 213 W. Second St.

Ark., Little Rock—G. W. Massery, 1119 W. 7th St., erect \$20,000, 1-story, 50x140 ft., brick and stone store; Fred Parrott, Contr., 2405 Battery St.

Ark., Little Rock—John F. Boyle, Boyle Bldg., erecting \$100,000, 2-story, 150x90 ft., rein. conc., brick and terra cotta store and office building 5th and Center Sts.; comp. roof, cement, tile and wood floors; Gordon Walker, Contr., Pyramid Life Bldg.; Thompson, Sanders & Ginochio, Archts., Hall Bldg.; J. C. Riddell, Engr., Pyramid Life Bldg.

Fla., Miami—Following sub-contracts awarded on \$500,000 store, Biscayne Blvd. and 14th St., being erected by Biscayne Boulevard Co., 1317 Biscayne Blvd., and leased to Sears, Roebuck Co., Chicago, L. H. Beall, Regional Mgr., Atlanta, Ga.: Piling, Raymond Concrete Piling Co., Healey Bldg.; rein. steel, Kalman Steel Co., Candler Bldg.; forms for conc. columns, Corr-Service & Erection Co., all Atlanta; rock and sand, Meteor Transport & Trading Co., Causeway Terminal Docks, Miami Beach; Florida Portland cement, Baker & Holmes Co., 105 N. W. First St.; lumber, Cheely Lumber Corp., 1400 N. W. 17th Ave., both Miami; plans by Nimmmons, Carr & Wright, Archts., 333 N. Michigan Ave., Chicago, include 4 stories, 125x176 ft., with 125-ft. tower, conc., flat slab construction, wood floors, built-up roof, cast stone trim, 3 elevators; Harrison Construction Co., Gen. Contr., N. E. 45th St., Miami. 5-16

Ga., Atlanta—Marbut & Minor, 314 Flat Shoals Ave., S. W., erect 1-story, 56x70 ft., brick store, 508 Flat Shoals Ave.; tar and gravel roof; owner builds.

Ga., Augusta—Mrs. W. Houston let contract at \$12,890, to Branch & Smith, 334 Walker St., to remodel store, 848 Broad St.; Willis Irvin, Archt., S. F. C. Bldg.

La., Monroe—Dr. W. J. Hodge, Trenton St., West Monroe, let contract to Frank Russell for \$12,000, 2-story, 32x75-ft. brick store, Grand and Jack McEnery Sts.

La., New Orleans—I. L. Lyons Estate let contract to Gervais F. Favrot, Balter Bldg., for improvements to 8-story I. L. Lyons Bldg., Camp and Gravier Sts., for store, loft and office building; ground floor for 5 stores, other floors for light manufacturing and offices; install passenger and freight elevators, sprinkler system, plumbing, electric wiring and heating system.

Mo., St. Louis—Badem Building & Financial Corp., 7315 N. Broadway, has permit for \$80,000, 4-story, 43x166-ft. brick store and tenement, 8326-36 Halls Ferry Road; W. Jackson, Contr.; S. Peck, Archt., Buder Bldg.

Mo., St. Louis—L. Spielberg, 2009 Cooper St., erect \$20,000, 1-story, 46x150-ft. brick store, 5146 Daggett St.; L. Donati, Contr., 5635 Columbia St.

Okla., Boise City—Cox Hardware Co. ready for bids for 1-story, brick, stone, rein. conc. store; J. R. Smith, Archt., Blackburn Bldg., Amarillo, Tex.

Okla., Mangum—A. M. Wright, Wright Hardware & Furniture Co., erect \$25,000 brick store; tile and built-up roof, wood and cement doors; R. S. Smith, Archt., Reynolds Bldg., Fort Worth, Tex.

Tenn., Kingsport—E. B. Cox let contract to Pyle Brothers for \$10,000 50x130 ft., 1-story, brick and conc. building.

Tex., Fort Worth—J. A. McAdams, 2020 Noble St., let contract at \$13,000 to J. S. Whiman, Sylvania Station, for 2-story, 67x90 ft., brick and tile store, Frey Ave. and Race St.; tar and gravel roof; J. M. Morgan, Archt., 605 Frey Ave. 6-13

Tex., Fort Worth—Max Gilbert, 2211 Fairmount St., let contract to Echols Bros., 1010½ Main St., for steel work for addition and remodeling store, 5th and Houston Sts.; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg.

Tex., Fort Worth—Mrs. Ida L. Turner, 1401 Pennsylvania Ave., excavating for \$18,500, 1-story, 110x60 ft., brick and tile, 5-store, Forest Park Blvd.; B. B. Adams, Contr., First Natl. Bk. Bldg.; Manvel Ervin, Archt., Dan Waggoner, Bldg.

Tex., Houston—L. V. Harbuck, 6711 Ave J, let contract to G. B. Whitehead for \$19,000, 2-story, brick veneer, 8-apartment, Navigation Blvd. and 69th St.; garage for 6 cars.

Tex., Houston—Gulf Properties Co., capital \$200,000, incorporated; J. E. Winfree, Pres., St. Natl. Bk. Bldg.; R. L. Deats,

Contr.; erect 8 or 9 community grocery stores.

Tex., Houston—L. B. Sligar Building Co., 4318 Main St., erect \$50,000, 2-story, 125 x 41 ft., brick and hollow tile, building, McKinney and Palmer Sts.; John W. Gregory, Archt.

Tex., Houston—Schulte-United, Inc., 485 Fifth Ave., New York, remodel 3-story building, Main and Prairie Sts., for department store; E. J. Hoffman, Archt., New York; Alfred C. Finn, Asso. Archt., Bankers Mortgage Bldg., Houston; T. B. Hubbard Construction Co., Electric Bldg. Annex, Houston, has contract for excavation.

Tex., Robstown—J. A. Talbert soon start work on store on Main Ave.; W. D. Smith, foreman.

Tex., Sweetwater—S. C. Glass started work on improvements to Luella Bldg. to be leased to J. C. Penney Co.; \$10,500; Leslie Dorbendt, Contr.

#### Theaters

Oklahoma, Oklahoma City—Mid-West Enterprises, John Sinopoulou, Pres., let contract to Reinhart & Donovan, Commerce Exchange Bldg., for \$1,000,000, 10-story theatre and offices, Harvey Ave., between Main St. and Grand Ave.; first 2 floors for theatre, upper

floors for offices; John Eberson, Archt., 212 E. Superior St., Chicago.

2-14

#### Warehouses

Md., Baltimore—Charles E. Litsinger, 3678 Falls Road, erect \$25,000, 5-story, 77x100 ft., rein. conc., fireproof storage warehouse, 3300 Falls Road; Frederick E. Beall, Archt., 306 St. Paul St.; owner builds.

Mo., St. Louis—J. L. Randazzo, 4523 Washington St., erect \$20,000, 1-story and basement, 110x44 ft., brick office and warehouse Chouteau and Montrose Aves.; Rallo & Brugnone, Contrs., 4659 Page Blvd.; Otto J. Kreig, Archt., Wainwright Bldg.

## WANT SECTION

### THE CLASSIFICATIONS IN THIS SECTION ARE:

#### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

*Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.*

#### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

#### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

and data on machinery to manufacture sheet also crushers and pulverizers.

Paul W. Bergmann, Inc., Paul W. Bergmann, Pres., 325 E. 14th Streets, Sarasota, Fla.—Wants prices and data on following:

- (1) Mortar Mixers
- (2) Water Pipe—Copper.

Globe Equipment Co., 1009 Myrtle Ave., Jacksonville, Fla.—Wants prices and data on following:

- (1) Hack Saw (Power)—to cut up to 1 inch or more
- (2) Pump—centrifugal or screw with 30 inch intake
- (3) Shears—gate or squaring, 8 ft.x12 or 14 gauge, motor driven.

Kuhn Construction Co., Inc., J. A. Kuhn, Pres., Kanawha Valley Bldg., Charleston, W. Va.—Wants prices and data on following:

- (1) Concrete Mixers, etc.
- (2) Hoists
- (3) Saws (Electric)
- (4) Steam Shovels
- (5) Trucks (Automobile)

Water Works Machinery.—Public Works Engineering Corp., 40 Exchange Place, New York—Wants prices on following for filtration plant at Welch, W. Va.:

- (1) Aerator Pan
- (2) Aerator Nozzles (6)
- (3) Dry Feed Machine (2)
- (4) Piping and Valves
- (5) Vertical Filters—two 10-in.

#### Miscellaneous.

Face Powder and Boxes.—Terry Manufacturing Co., 104 Sixth Street, Bristol, Tenn.—Want prices and data on 3 oz. face powder boxes and best grade of face powders in barrel lots.

Gravel.—Glenn H. Curtiss Properties, Inc., L. H. Rowe, Engr., Opa Locka, Fla.—Want prices and data on graded filter gravel for small city water works.

Lavatories.—Favel Overland Co., Woodstock, Va.—Wants prices and data from manufacturers of iron or steel enameled lavatories.

Florida New Star Co., Inc., Hollywood, Fla. (manufacturers of all kinds of collapsible and stationary stars) wants data and prices from manufacturers of automatic machinery to turn out paper stars, with cardboard frames, in large quantities.

#### Building Material and Equipment

Rev. W. L. Drake, Germantown, Tenn., wants prices on following for church, Germantown, Tenn.:

- Flooring—linoleum, tile, composition
- Pews, Furnishings, etc.
- Plaster Board
- Roofing (hip)—asphalt shingle
- Tile—hollow
- Wire Glass.

Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., Nashville, Tenn., wants prices on following for dwelling, Springfield, Tenn.:

- Flooring—hardwood, tile
- Roofing—asbestos shingle.

Overhead Cranes.—W. M. Smith & Co., Birmingham, Ala.—Want prices and data on 1 or 2 overhead cranes, 3 motor, 10 to 15 tons, 40 to 70 ft. span; used equipment.

Steam Shovel Bucket.—Riverton Lime Co., Inc., Riverton, Va.—Wants prices and data on  $\frac{3}{4}$ -yd. manganese front steam shovel bucket for model 21, Marion crawler-type steam shovel.

Seastrunk & Shand, Contrs., 2132 Divine St., Columbia, S. C.—Wants prices and data on following:

- (1) Concrete Mixers—one bag capacity
- (2) Contractors Lifts.

English Construction Co., Inc., 1311 H St., N. W., Washington, D. C.—Wants prices and data on following:

- (1) Air Compressor—to run 2 breakers, portable
- (2) Hoist—single drum, electric or gasoline about 35 to 75 h. p.

J. H. Patten Pickens, S. C.—Has Large mine of amphibole asbestos and wants prices

Rev. J. L. Willis, Box 943, Borger, Tex., wants prices on following for \$20,000 church:

- Art Glass Windows
- Flooring—hardwood, tile, compositions
- Pipe Organ
- Plaster Board
- Rolling Partitions
- Roofing—asbestos shingle
- Wire Glass.

F. O. Trump, Contr., Martinsburg, W. Va., wants prices on following for \$60,000 apartment:

- Electric Refrigerators
- Elevators
- Flooring—hardwood
- Incinerator
- Metal Doors
- Roofing (flat)—built-up
- Steel Sash and Trim
- Tile—gypsum.

Trost & Trost, Archts.-Engrs., Box 271, El Paso, Tex., want prices on following for \$150,000 hotel at Van Horn, Tex.:

- Flooring—linoleum, tile
- Tile—gypsum
- Ventilators.

R. G. Shisler Construction Co., 510½ Spring St., Shreveport, La., wants prices on following for \$65,000 sanitarium:

- Flooring—linoleum, tile
- Rolling Partitions
- Roofing—built-up
- Steel Trim
- Tile—gypsum, hollow.

Public Works Engineering Corp., 40 Exchange Place, New York, Engrs., wants prices on following for filtration plant at Welch, W. Va.:

- Brick
- Concrete Materials
- Lumber.

Chas. H. McCauley, Archt., Jackson Bldg., Birmingham, Ala., wants prices on following for \$35,000 dwelling:

- Electric Refrigerators
- Flooring—hardwood, linoleum, tile
- Roofing—slate.

Henry H. Dupont, Archt., Lewis Bldg., St. Petersburg, Fla., wants prices on following for \$14,000 hospital pavilion, Largo, Fla.:

- Electric Refrigerators
- Flooring—hardwood, linoleum, tile
- Roofing (flat)—built-up.

McBride Construction Co., Contr., Bastrop, La., wants prices on following for \$30,000 school addition:

- Cast Stone
- Marble
- Roofing (flat)—built-up
- Tile—interior
- Ventilators.

J. A. McAdams, 2920 Nole St., Fort Worth, Tex., wants prices on following for \$13,000 store:

- Brass and Bronze Work
- Elevators
- Flooring—hardwood, linoleum, tile
- Metal Ceilings
- Plaster Board
- Roofing—asbestos shingle, slate, tile
- Tile
- Terra Cotta Trim.

**Bids Asked**

**Airport Grading and Draining.**—Office of Public Utilities, Grounds & Buildings, City Hall, Chattanooga, Tenn.—Bids June 24 for grading, clearing, draining, sub-soiling, turfing airport, etc. See Construction News Columns—Airports, Airplane Plants, etc.

**Boilers.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids July 8 for furnishing and installing 2 hot water heating boilers, radiators, piping, etc., in U. S. Post Office and court house, Frankfort, Ky.

**Boiler, etc.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids July 12 for furnishing and installing heating boiler, stack, etc., and making plumbing and electrical changes in U. S. Post Office and hourt house, Opelousas, La.

**Bridges.**—State of South Carolina. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State of North Carolina. Bids for 3 bridges. See Construction News—Roads, Streets, Paving.

**Bridge.**—Westminster, Md. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—State of Virginia. Bids for 4 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—Towson, Md. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State of Missouri. Bids for 55 bridges. See Construction News—Roads, Streets, Paving.

**Buses.**—Buncombe County Bd. of Education, Asheville, N. C.—Bids June 24 for 5 new school buses; 2-ton, approx. 105 in. wheel base, dual wheel 32x6, 6 cylinder motors, 4 wheel brakes.

**Dam, Excavation, etc.**—Police Jury of St. Bernard Parish, St. Bernard, La.—Bids July 2 for creosoted timber dam, removing approx. 6000 cu. yd. earth, etc. See Construction News Columns—Miscellaneous Construction.

**Dormitory Furniture and Equipment.**—J. S. Clark, Pres., Southern University, Baton Rouge, La.—Bids July 12 for furniture and equipment for dormitory for Southern University and A. & M. College; Favrot & Livaudais, Archts., Hibernia Bk. Bldg., New Orleans.

**Dredging, etc.**—See Construction News Columns—Drainage, Dredging and Irrigation.

**Dikes.**—U. S. Engr. Office, Kansas City, Mo.—Bids July 8 for constructing clump dikes, Elwood Bend, Missouri River. See Construction News Columns—Miscellaneous Construction.

**Electrical Supplies.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids June 25 for electrical supplies, delivery Quantico, Va.

**Fence, Road, etc.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids June 24 for fence, roads, entrance, etc., at U. S. Marine Hospital No. 66 (National Home for Lepers), Carville, La.

**Flood Gates, etc.**—See Construction News Columns—Miscellaneous Construction.

**Furniture, etc.**—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids June 25 for furnishing and delivering furniture and equipment for various schools for Dept. of Education.

**Gasoline, Kerosene and Fuel Oil.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids June 24 for gasoline, kerosene and fuel oil.

**Hardware, etc.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids June 25 for hardware, etc., delivery Quantico, Va.

**Heating Boilers, etc.**—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids July 8 for furnishing and installing 2 hot water heating boilers, radiators, piping, etc., in U. S. post office and court house, Frankfort, Ky.

**Heating Plant.**—Bd. of Supervisors, Lee County, Tupelo, Miss.—Bids July 1 for oil-burning heating plant for court house building.

**Laundry Equipment.**—Quartermaster, Marine Corps, Washington, D. C.—Bids June 25 for 3 motor driven, electrically controlled laundry washing machine and 1 ironer.

**License Plates, Tags, etc.**—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids July 9 for furnishing City Collector with 12,350 tin license plates, 35,000

German silver dog license tags, 250 German silver kennel tags, 2300 vendor badges, 500 val aluminum tags, 3500 octagon shaped aluminum tags and 3000 franchise tags.

**Lighting Fixtures.**—Q. M. Supply Officer, Washington, D. C.—Bids June 27 for lighting fixtures for nurses' quarters.

**Miscellaneous.**—Panama Canal, Gen. Pur. Office, Washington, D. C.—Bids June 24 for following, Sch. 2480: Mortise knob locks, brass pipe fittings, railing fittings, steel cabinet, meter-testing blocks, fire extinguishers, axes, etc.

**Miscellaneous.**—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids June 25 for following: Surface grinding machine, carbon brushes, muslin buffs, sailmakers' needles, vices, valve reseating outfit, countersinks and drills, picks, shovels, sharpening stones, reamers, flat and soldering irons, electric glue pots, stamping figures and letters, drill chucks, augers, chisels, portable, electric drills and grinders; bids July 2 for multiple spindle drill.

**Miscellaneous Supplies.**—Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids July 5 for furnishing struc. steel channels, angles and beams, 180,000 lbs. soft steel, 10,000 lbs. lead, 45,000 sheets corrugated galv. roofing, chemical fire engine, 37,500 lbs. linseed oil, 250,000 T head or wedge point nickel plated pins. Sch. 1970.

**Paving.**—McComb, Miss. See Construction News—Roads, Streets, Paving.

**Pipe (Cast Iron).**

**Pipe (Reinforced Concrete).**—See Sewers.

**Paving.**—Lagrange, Tex. See Construction News—Roads, Streets, Paving.

**Pipe (Vitrified).**—See Sewers.

**Pipe (Terra Cotta).**—See Sewers.

**Piping.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids July 11 for installing water piping in U. S. Custom House, A. S. and court house, Wilmington, N. C.

**Pipe Covering.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids June 24 for 19,550 lin. ft. asbestos pipe covering, delivery Port Royal, S. C.

**Reservoir.**—See Water Works.

**Road.**—Freeport, Tex. See Construction News—Roads, Streets, Paving.

**Road.**—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

**Road.**—Towson, Md. See Construction News—Roads, Streets, Paving.

**Road.**—Canton, Miss. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Missouri. Bids for 54 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State Highway Dept., Dover, Del. Bids July 9 for 2 roads: Cont. 131—51 mi. East State St., Delmar, 900 cu. yd. excavation, 900 cu. yd. cement conc. paving; Cont. 132—widen Beach-National Guard camp, 450 cu. yd. excavation, 150 cu. yd. cement conc. or cement conc. (slag) paving.

**Roads.**—State of North Carolina. Bids for 9 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Virginia. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—Tulsa, Okla. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—Laurel, Miss. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Maryland. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

**Rope (Manila).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids June 25 for 1800 lb. manila rope, delivery Quantico, Va.

**Screens.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids June 28 for screens for P. O., Russellville, Ark.

**Sewers.**—Bd. of Awards, Baltimore, Md.—Bids June 25 for building sanitary sewers and storm drains, Storm Water Cont. No. 133 and No. 134; includes: 30-in. to 24-in. pipe drain; vit. house connections; rec. brick and conc. drain, etc.; Milton J. Ruark, Sewerdam, vit. brick and conc. and rein. conc. age Engr.

**Sewers.**—City of Houston, Miss., Ashton Toomer, Mayor—Bids July 5 for complete sanitary sewer system, including house connections, manhole and appurtenances; mate-

rials include 32,700 ft. of 8-in., 5,320 ft. of 10-in., 8400 ft. of 15-in. sewers; 2000 ft. of and conc. disposal plant; Klyce and Harrub, Engrs., Fourth and First Natl. Bank Bldg., Nashville, Tenn.

**Sewers.**—Baltimore County Comr., Towson, Md., Bids July 1 for excavation of trenches and furnishing and laying vit. pipe sewer and appurtenances in Overlea; work includes, 8 to 4-in. t. c. sewer; house connections, brick manholes, and miscellaneous items; B. L. Crozier, Ch. Engr.

**Street.**—Cumberland, Md. See Construction News—Roads, Streets, Paving.

**Street.**—Durant, Miss. See Construction News—Roads, Streets, Paving.

**Street.**—Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Streets.**—St. Louis, Mo. See Construction News—Roads, Streets, Paving.

**Street.**—Miami, Fla. See Construction News—Roads, Streets, Paving.

**Street.**—Jefferson City, Mo. See Construction News—Roads, Streets, Paving.

**Roads.**—State of South Carolina. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

**Spillway.**—U. S. Engr. Office, Ft. of Prynania St., New Orleans, La.—Bids July 8 for constructing Bonnet Carré Spillway structure. See Construction News Columns—Miscellaneous Construction.

**Wells.**—Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids June 24 for 2 wells at Marine Barracks, Parris Island, S. C.

**Water Mains.**—Bd. of Awards, Baltimore, Md.—Bids June 25 for excavating trenches and laying mains in York Rd. from 42nd St. to 1918 Boundary Line of Baltimore City; E. G. Rost, Water Engr., Room 501 Municipal Office Bldg.

**Water Piping.**—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids July 11 for installing new water piping in U. S. custom house, A. S. and court house, Wilmington, N. C.

**Water Works.**—City of Houston, Miss., Ashton Toomer, Mayor—Bids July 5 for water works improvements, including rein. mains to distribution system, c.i. pipe, conc. reservoir with conc. roof; motor driven pumps; valves; fire hydrants, etc.; principal quantities are: 5300 ft. of 8-in., 15,540 ft. of 6-in., 200 ft. of 4-in. c.i. mains; 16,000 lbs. specials; 100,000 gal. conc. reservoir; Klyce & Harrub, Engrs., 705 Fourth and First Natl. Bank Bldg., Nashville, Tenn.

**Water Works.**—City of Hermann, Mo., H. W. Stoerner, Mayor—Bids June 28 for furnishing materials and constructing conc. reservoir; work includes, excavation; conc. rein. steel; 8 and 6-in. c. i. pipe; 8 and 6-in. valves; 8 and 6-in. c. i. wyes; manhole covers; Russell Axon, Engrs., 6200 Eastern Ave., St. Louis, Mo.

**Trade Literature**

**Gears.**—“Micarta, Silent Gears and Pinions” is the title of a new booklet, C-1579-F, by the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. The circular gives a complete account of the Westinghouse Micarta gear material; its history and the design, application and distinctive features of micarta gears. Descriptions of and photographs of various types of installations are helpful.

**Welded Pipe.**—Under the title, “The New Way,” bulletin 505 of the A. O. Smith Corporation, Milwaukee, Wis., describes SMITH-Weld pipe, particularly for oil and gas lines, this pipe usually being made of steels in the .20-.30 per cent carbon series, resulting in pipe with thinner walls, but with at least customary strength. The minimum tensile strength of this steel is 60,000 pounds per square inch. Details, illustrations and comprehensive information feature the bulletin.

**Cranes, etc.**—In a new catalog, No. 1095 the Link-Belt Company, Chicago, Ill., shows its complete line of cranes, shovels and draglines, which are used very extensively in flood control work, especially in the form of draglines. The two-yard K-55 size is said to be especially adapted to this work, as it has large capacity and can be shipped and handled and moved with practically the same ease and facilities as the smaller size, and will handle a two-yard capacity bucket on 50 or 55 foot boom.

**Power Transmission.**—Two new publications on power transmission equipment have been issued by the Westinghouse Electric and Manufacturing Company. Circular 1831 describes and illustrates helical and herringbone gear units for heavy duty drives, dimensions and weights of each size of both the roller bearing and sleeve bearing types being tabulated with dimension drawings. Circular 1838 describes the construction, application and maintenance of a type of coupling particularly designed for use with speed reducers.

**Materials.**—Some of "the best bargains in stock" of the Walter A. Zelnicker Supply Company, St. Louis, Mo., are set forth in bulletin 386, among the items being many tons of new steel, kegs of rivets, channels, I beams, tank cars, gondolas, oil engines and pressure tanks. Also listed are oil truck tanks, jib cranes, wire rope, new oak flooring, humidifier system, fan blower, road roller, steel concrete forms, motors, engine generator set and so on. "We have what you want at some point," says Zelnicker.

**Boilers.**—Efficient production of steam depends largely on the correct baffling of the boiler, and an article on "Baffling for Straight Tube Boilers" is a feature in "The Safety Valve," issued by the Combustion Engineering Corporation, New York. The article illustrates and describes various types of baffles, their relation to straight tube boilers, the materials used with comparative tests of several baffling materials and various types of baffle arrangements to meet certain combustion requirements.

**Gravel Equipment.**—Eighty pages of a comprehensive brochure are utilized by the Pioneer Gravel Equipment Manufacturing Company, Minneapolis, Minn., for full and detailed description of Pioneer gravel equipment, which, it says, "is designed and built not to meet a price, but the highest standards of design and construction." Specifications, blueprints and illustrations also are given, and the company further volunteers to assist in solving the problems of road builders and others.

**Kilns.**—The Moore Dry Kiln Company, Jacksonville, Fla., and North Portland, Ore., announces a new issue of "Moore Facts," bulletin No. 2906, giving a detailed description of the Moore reversible cross-circulation fan kiln, and commemorating the Golden Anniversary of the company. Pictures show the application of the fan and heating system to installation, either overhead or below the tracks to suit building requirements, and a partial list of manufacturers now using this system is also given.

**New Ryerson President.**  
Edward L. Ryerson, Jr., has been elected president of Joseph T. Ryerson and Son, Inc., Chicago, succeeding Joseph T. Ryerson, who will remain a member of the board and continue to hold the office of treasurer. Mr. Ryerson, Jr., has had 20 years' experience in the operating and marketing divisions of the



Edward L. Ryerson, Jr.

business. The Ryerson Company, now in its 87th year, furnishes a complete line of steel products for industrial and universal consumption. Sales for the first five months of this year are said to show an increase of over 18 per cent over those of 1928.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Report of Electric Bond and Share Company.

According to a report to stockholders April 30, 1929, the Electric Bond & Share Co., New York, a consolidation of the former Electric Bond & Share Co. and the Electric Bond & Share Securities Corp., had a gross income of \$20,373,788 for the 12-month period ended December 31, 1928, and a gross income of \$25,046,182 for the 12-month period ended April 30, 1929, with a net income for the prior period of \$13,822,173 and of \$18,328,968 for the latter period. Deducting \$2,998,200 for preferred stock dividends for the prior period, the balance for surplus and common stock dividends amounted to \$10,824,513 for the period, and with a deduction of \$3,117,214 for preferred stock dividends, the balance for surplus and common stock dividends for the latter period is \$15,211,851. The balance sheet as of April 30, 1929, shows a reserve of \$5,000,000 and surplus of \$501,933,519.

### New Copperweld District.

The Copperweld Steel Company, Glassport, Pa., has formed a southeastern district comprised of Georgia, Alabama, Tennessee, Florida, Mississippi and part of Louisiana, with P. A. Terrell in charge as district manager. The office is in the American Traders Bank Building, Birmingham, Ala.

### Baton Rouge Sewer Installation.

The June edition of the U. S. Cast Iron Piper, a publication of the United States Cast Iron Pipe and Foundry Co., Burlington, N. J., carries an interesting description of a sanitary sewer installation at Baton Rouge, La., in which cast iron pipe was used. The work consisted of a sewage pumping station, 3000 feet of 8 to 18 inch intercepting sewers and approximately one mile of 36-inch trunk sewer, 1500 feet of which serves as a force main for a period of about three months each year, when the Mississippi River is higher than the 25-foot stage. The project was handled by the J. B. McCrary Co., Atlanta, Ga., under the supervision of L. J. Voorhies, consulting engineer, of Baton Rouge. Cast iron pipe was supplied by the U. S. Cast Iron Pipe and Foundry Co.

### Fuel Economy.

A record of coal operation at the boiler plant of J. J. Finnigan Company, Inc., Atlanta, Ga., operating in the usual way and also by the "Francis D. Shaw process" with chemically prepared water, which, when fed on a coal fire, intensifies the heat and generates a gas that economizes in the saving of fuel and eliminates black smoke and cinders, shows: Average steam, 78.56; old way, 65.7.

### Hoist Equipment Order.

The Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., has obtained an order from the United Verde Copper Company of Jerome, Ariz., for the hoist equipment for one of its mines. This includes a 2700 horsepower, 650 volt, 66½ rpm. d-c motor, which will be direct connected to a Nordberg double drum hoist having 12-foot diameter drums and a 7-foot face. Power for the hoist motor will be supplied by a flywheel motor generator set consisting of a 2500 horsepower a-c motor, 3-phase, 60-cycle, 6600 volts, 680 rpm., which will be direct connected to a 10-foot flywheel and two 1250 kw., 650-volt direct current generators and a 45 kw., 250 volt, 680 rpm. exciter. Manual Ward Leonard control will be provided, including all safety features. This hoist installation is said to be the largest in the Southwest.

### Hercules Takes Virginia Cellulose.

The Hercules Powder Company, Wilmington, Del., as of July 1, succeeds to the assets and business of the Virginia Cellulose Company, Inc. The business taken over will be known as the Virginia Cellulose Department. The cellulose company's plant is located at Hopewell.

### Linde Oxygen Plant.

A new oxygen producing plant at 150 Stockton street, Jacksonville, Fla., has been added to the chain of the Linde Air Products Company, New York. E. H. Blount is superintendent of the plant and J. Erskine, with headquarters at the Birmingham Linde plant, is district superintendent.

**Furniture Plant for Sale.**

Sale of a furniture manufacturing plant at Marion, Va., on June 29 at 10:30 A. M., is advertised in this issue of the MANUFACTURERS RECORD, with detailed particulars obtainable from B. F. Buchanan, John P. Buchanan and O. C. Sprinkle, commissioners and receiver. The property, belonging to the Lincoln Company, Inc., includes a large lot of bedroom suites, vanities, radio cabinets and other furniture, which will be sold at auction immediately after the sale of the plant. "A rare chance for bargains and investment," say the advertisers.

**William S. Jones' New Post.**

William S. Jones, formerly vice-president of the Carpenter Steel Company, has become vice-president in charge of sales of the Universal Steel Company, Bridgeville, Pa., and the Cyclops Steel Company, Titusville, Pa., with headquarters at 10 East Fortieth street, New York City.

**Water Wheels.**—Bulletin W204 of the James Leffel & Co., Springfield, Ohio, tells of Leffel installations at the Hamilton, Ohio, plant of the Ford Motor Company, the three units being Leffel type Z vertical shaft tur-

bines, direct connected to vertical generators. Each generator has two rotors, one designed to deliver alternating current and the other for direct current, excitation being provided by independent motor generator. Other details also are given.

**New Linde Plant.**

A new Linde oxygen producing plant at 1000 West Washington avenue, Oklahoma City, Okla., has commenced operations, supplied by the Linde Air Products Company, New York City. F. K. Buckalew is superintendent of the new plant, and A. B. Curtis, at Dallas, Texas, is district superintendent.

## Lake Okeechobee Flood Control Bill Signed by Governor

Also Provides for Drainage of Everglades and Paves Way for Developing Inland Waterways System in State

[Telegram to Manufacturers Record.]

Tallahassee, Fla., June 14.

Okeechobee flood control bill introduced by E. Bruce Youngs, of Opalocka, representative from Dade County, passed by House and Senate and signed by Governor Carlton. This bill had the support of Governor Carlton, who with President Hoover made a trip of inspection of this flood area during the President's visit in Florida.

The bill provides a sum of \$5,000,000 be raised by the 13 counties of this area in order to co-operate with United States Government for Federal aid in controlling the waters of Lake Okeechobee and constructing such safeguards that are necessary to protect human life and property and prevent a recurrence of the terrible disaster of 1928, which was one of the great catastrophes of this nation with over 2000 dead. The bill definitely differentiates flood control from drainage.

It lays a firm foundation for seeking and securing Federal co-operation. It brings in the question of navigation and lays the foundation for the improvement of Lake Okeechobee, connecting streams and canals as part of a great inland waterway system and cross state canals. It calls for a board of five land owners from this area to serve with the Governor and four of his cabinet as the Board of Control. Heretofore all questions in regard to the Everglades were empowered to the Governor and his cabinet and the people of this area 600 miles away had had no direct voice in the matter. Under this bill the people have a direct voice in all matters. The bill takes the Everglades out of politics which for years has been a political football and puts it in the hands of the people. The bill recognizes the fact that the people living in the territory affected and who have entwined their destiny

with the territory have a right to be represented on the board and a right to have a voice in working out its problems.

The bill further authorizes the board of ten members to enter into a contract with the United States Government under a plan to be agreed upon to take full charge and control of the entire work which insures all construction be done under the direct supervision of United States Government engineers. Work will proceed immediately upon action being taken by Congress. Florida has done her part and is very anxious to proceed.

E. BRUCE YOUNGS.

**To Present Louisiana Advantages**

In order to acquaint the various sections of the United States with the business advantages of Louisiana, the Louisiana Chamber of Commerce will embark on its first business tour on Saturday, July 6. The trip will cover approximately 7500 miles, and will contact 40 cities in 14 States in the Northwest and one in British Columbia, covering a period of 21 days.

Two specially constructed exhibit cars will be used to house representative exhibits of Louisiana's natural resources and manufactured products. This gives opportunity for each manufacturer to secure greater advertisement of his products, the idea being not only to show the finished product, but also to make known the various stages of manufacture of the products exhibited.

The City of Knoxville, Tenn., J. A. Fowler, mayor, and Neil Bass, city manager, sold \$800,000 4½ per cent refunding bonds to mature serially from May 1, 1932 to 1968, to Eldredge & Co., New York, at \$790,800.

**CONTRACT FOR NEW COTTON MILL UNIT**

**Pepperell Manufacturing Company Plans Building for 20,000 Spindles and 500 Looms**

Opelika, Ala.—General contract has been awarded by the Pepperell Manufacturing Co. to the Batson-Cook Co., West Point, Ga., to build a unit here for the accommodation of 20,000 spindles and 500 looms. The contract also covers the construction of 60 operatives' dwellings in the new mill village, for which the company is making plans. The new unit will occupy a site immediately to the east of the present unit and will manufacture print cloths to be finished for the present at Lewiston, Me. The existing mill produces drills, twills, jeans, brown muslins, coarse sheeting and sateens. Upon completion and equipment of the new unit the company will have 43,000 spindles and 1200 looms, employing about 600 operatives. F. P. Sheldon & Son, Providence, R. I., are engineers for the project and E. S. Draper, Charlotte, N. C., landscape architect.

**96 Dwellings for Hopewell**

Hopewell, Va.—J. L. Van Pelt of Van Pelt & Hunter, realtors and insurance brokers of Hopewell, announces the organization of the Century Housing Corp. for the construction of dwellings for rent. Arrangements have been made by the new company to purchase a tract of land near Highland Park, on which it plans to erect 96 houses, some of which will be duplex, of four and six rooms. Each house will be erected on a good size lot. Streets and sidewalks will be provided immediately and construction of the dwellings will begin within two weeks. Arrangements have been made with the Real Estate Department of the Tubize Artificial Silk Company of America, whereby the latter will handle the assignment of dwellings to Tubize employees, while the office of Van Pelt & Hunter will handle rentals to others.

## \$5,000,000 Sonora-San Angelo Rail Line in Texas

Kansas City, Mexico & Orient Also Plans 85-Mile Extension Alpine to Presidio

Sonora, Tex.—An appropriation of \$5,000,000 has been made for the construction of the new 65-mile railroad extension from San Angelo to Sonora, to be built by the Kansas City, Mexico & Orient Railway Company of Texas, according to an announcement here, and the construction contract is expected to be awarded soon. Authority to build the line has already been secured from the Interstate Commerce Commission.

The Kansas City, Mexico & Orient also plans to build a line from Alpine, where

it connects with the Southern Pacific Railroad, to Presidio, a distance of 85 miles. The location of this extension will have been completed by July 1, after which construction bids will be invited. It is possible that, in the operation of this extension, the tracks of the Southern Pacific may be used from Alpine to Paisano, a distance of 12 miles. The Kansas City, Mexico & Orient is a subsidiary of the Atchison, Topeka and Santa Fe Railway Co., a unit of the Santa Fe System.

## \$2,500,000 Cigar Factory for Louisville

American Cigar Company to Build 5-Story Structure to Take Care of Additional Business

Plans are being made by the American Cigar Co., a subsidiary of the American Tobacco Co., New York, for the construction and equipment of a cigar factory at Louisville, Ky., reported to cost approximately \$2,500,000. Joseph Douglas Weiss, New York, architect for the project, advises that the building will be 5 stories and basement, fireproof, of reinforced concrete construction and will be fully sprinklered with the most modern equipment. It will be 80 by 150

feet, and is designed to take care of additional business of the company. Existing buildings on the property to be occupied by the new factory at Thirtieth street and Vermont avenue will be extensively altered. Drawings and specifications will be ready for bids about August 1. The construction of the new factory will not mean the suspension of the company's other Southern factories, according to Mr. Weiss, who states that the closing of present Southern plants is not contemplated.

### Meeting of Southern Pine Association

The mid-summer meeting of subscribers to the Southern Pine Association, H. C. Berkes, secretary and manager, New Orleans, La., will be held at the Roosevelt Hotel, New Orleans, on June 27. Meetings of standing committees will be held on June 26 and subscribers, whether members of committees or not, are invited to meet with them.

### Fewer Apple Trees

In 12 of the last 15 years, the average farm price of apples has been below the general pre-war wholesale price level of all commodities. As a result, millions of apple trees have been removed and others have been neglected. From 1910 to 1925, the number of apple trees in the United States decreased nearly 40 per cent, yet production of apples has

been practically maintained, says the Department of Agriculture.

Since 1917, commercial production has steadily increased; carlot shipments have increased at an average of 4,600 carloads a year since 1918, and movements by motor truck have grown considerably. Increased production per tree has largely offset the decline in the number of trees. The future appears somewhat brighter for the real commercial grower who is favorably located and who produces apples of high quality at low cost. The orchard planted today will not return a revenue for seven or 10 years; but when it starts producing it may be a source of income for 30, 50 or 60 years.

The state of Mississippi has sold \$780,000 4½ per cent rehabilitation bonds, out of a total issue of \$1,000,000, to C. W. McNear & Co., Chicago, and Stifel, Nicolaus & Co., Inc., St. Louis, at par and interest.

## HUGE LIQUID STORAGE TERMINAL

New Orleans Project Can Handle 40,000,000 Gallons—Further Expansion Planned.

New Orleans, La., June 8—[Special.]—The world's largest public terminal for handing bulk liquids has been developed at Good Hope, in the port of New Orleans, by the General American Tank Storage and Terminal Company by the purchase of the large tank farm formerly a part of the old Island Refinery, which has been added to the already created facilities of the General American. This terminal is now able to handle 40,000,000 gallons of liquid at one time.

The terminal has 1000 acres of land and a frontage of 3600 feet on the Mississippi river. It has a trackage for 750 cars, and loading racks that will accommodate 250 cars a day.

The General American Tank Storage and Terminal Company is a subsidiary of the \$50,000,000 General American Tank Car Corporation. The car company maintains a car repair shop adjoining the Good Hope terminal.

Hugo Epstein, vice-president and general manager of the terminal company, discussed the development as follows: "We can give the shipper of any bulk liquid commodity a complete transportation service. Starting at the oil fields, we furnish the cars to carry the crude to the refinery. We then transport the finished product to our terminal. Here we can store it for an unlimited length of time, accumulate cargoes to load at a future date, or load direct to ships. This expansion was made necessary by the increasing demands upon our terminal. We are now handling about three ships a week at Good Hope."

Mr. Epstein added that further expansions are planned.

## \$250,000 Hotel for Memphis

Memphis, Tenn.—Application has been filed by W. E. White for a permit to erect an 8-story apartment hotel here on East Parkway near Poplar avenue, at a cost of approximately \$250,000. The building will be of reinforced concrete and will contain 78 apartments. Richard L. Sieg, Memphis, is the architect.

Burkburnett, Tex.—The La Salle Petroleum Co., Tulsa, Okla., which recently purchased a gasoline cracking plant at Wichita Falls, Tex., is rebuilding it at Burkburnett for a capacity of from 1500 to 1700 barrels daily of charging stock. The Graver Corp., Chicago, has contract for construction as a turnkey job.

## New \$600,000 Hotel for Lake Charles, La.

The new Charleston Hotel, Lake Charles, La., is a steel and reinforced concrete structure with brick exterior walls and interior of tile and plaster. Partitions are of plaster and floors of concrete, surfaced with a specially prepared composition waterproof material. Bedrooms have concrete floors laid with heavy carpeting over thick mats of Celotex. Windows are encased in pressed steel frames and transoms over doors, for the most part, are also of pressed steel.

There are main entrances from Ryan street and from Pujo street, leading to the lobby on the ground floor. The basement provides space for a heating plant, refrigerating plant, transformer room, storeroom and other utilities. A feature of the mezzanine floor are four attractive combination sample and guest rooms, while a large dining room with a serving room occupies all the space of a 2-story annex to the main building. There are beauty parlors on the Pujo street side, reception and waiting rooms.



Hotel Recently Opened at Lake Charles

Spacious and well-lighted hallways lead to the rooms on each floor, every floor having its own linen room, janitor's closet and service features. The building is served by two elevators in the center of the structure and opening on a passageway off the main hall. Behind the elevators are closed-in stairways of steel and concrete leading from the mezzanine to the roof and accessible from both ends of the floor. Toward the Ryan street side of the building a passageway leads to a fire escape on the south of the structure; a second fire escape leads from a door at the west end of the main hall.

The building was erected by the Lake Charles Hotel Co., Inc., in which H. T. McClain and W. P. Weber are largely interested, at a cost of approximately \$600,000. Plans and specifications were prepared by Joseph Finger of Houston, Tex., and the general contract executed by McDaniel Bros. of Beaumont, Tex. The hotel has been leased to the Baley-Moffatt Hotels of Houston.

### To Erect Fertilizer Plant

The F. S. Royster Guano Co., Norfolk, Va., A. L. Griffin, vice-president, has purchased a site at Jackson, Miss., for a fertilizer factory and plans to begin construction of necessary buildings as soon as drawings have been completed. The main fertilizer building will be 600 by 175 feet, of heavy mill construction, while the wet mixing department will be of steel and brick and a bag press, bag printing, empty bag storage and nitrate of soda storage will be of brick. D. J. Rose & Son, Rocky Mount, N. C., are the general contractors.

### Maryland Water Front Commission

Annapolis, Md.—Members of the Maryland Water Front Commission, as named by Governor Albert C. Ritchie, are as follows: Mayor William W. McCabe, Ocean City; John B. Gray, Jr., Prince Frederick; John E. Greiner, Baltimore; Capt. Chester A. Wells, Chevy Chase; and P. Allison Morison, Salisbury, the latter to represent the State Roads Commission. As prescribed by a recent act of the Legislature, the Commission will

investigate and recommend to the next Legislature plans and policies for the protection and improvement of Maryland's water fronts and waterways and to co-operate in carrying into effect such plans for the development of the water front property within the State as may be adopted by the Legislature.

### Bids on 13 Miles Roads

Bids will be opened June 25 by the State Roads Commission, Baltimore, for constructing five road projects embracing a total of 13.22 miles. Four projects call for a total of 12.58 miles of concrete, one of which covers 8.3 miles in Kent County. One project calls for 0.64 mile of sheet asphalt in Baltimore city.

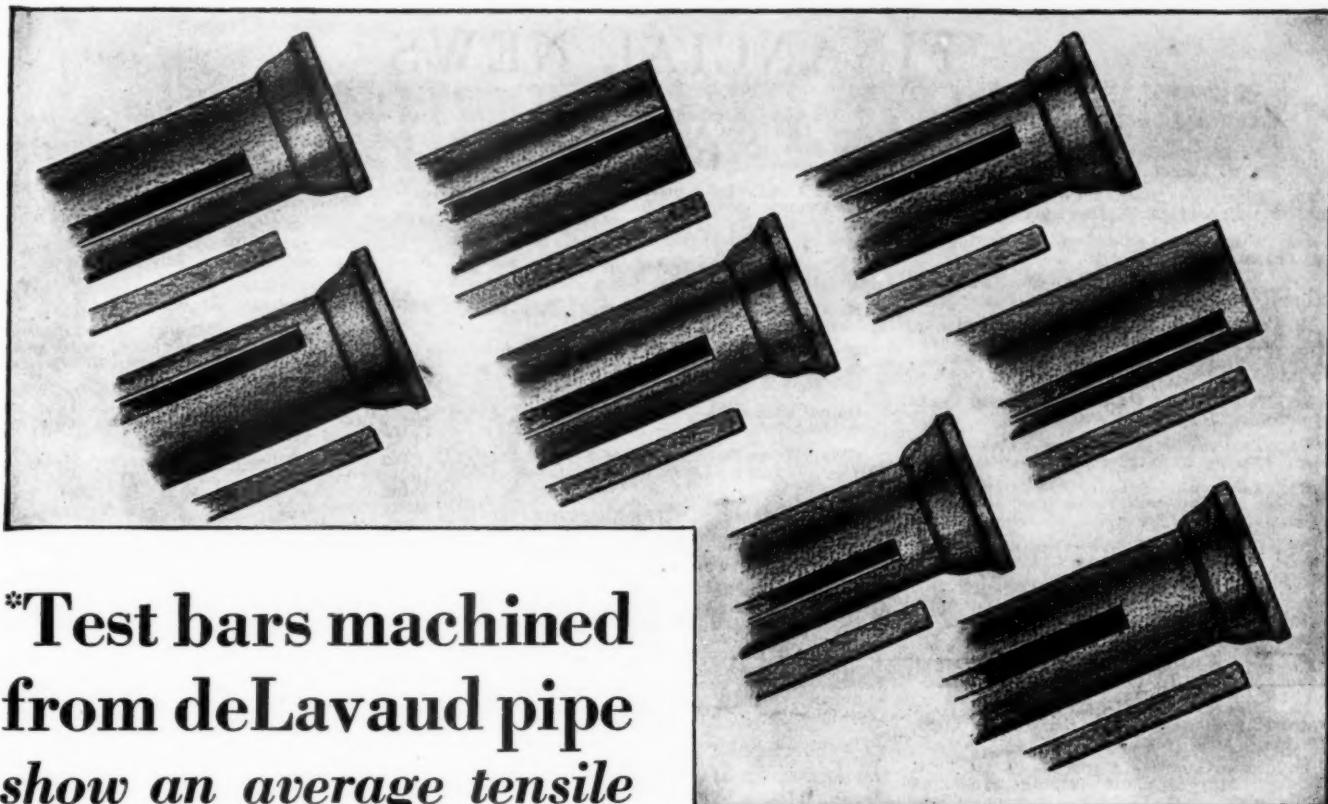
### \$2,100,000 Bond Election

Jacksonville, Fla.—City council has passed an ordinance calling for an election in Jacksonville July 25 on bonds in the amount of \$2,100,000, including \$1,500,000 for sewer and drainage improvements, \$300,000 for paving intersections and improvements and \$300,000 for street and highway improvements.

### Institute of Public Affairs

Charlottesville, Va.—Announcement of the program for the Institute of Public Affairs of the University of Virginia, to be held at Charlottesville August 4 to 17, inclusive, discloses a wide range of important topics to be covered by prominent speakers and discussed by men and women actively interested in public affairs. "The Economic and Industrial Development of the South" will be discussed under the leadership of Major LeRoy Hodges, and "The Country Life of the Nation," with Dr. E. C. Branson as leader; "The Task of the Country Church," Dr. Henry W. McLaughlin, leader, and "Problems in Contemporary Politics," Dr. William Starr Myers, leader, are a few of the other topics listed. Information may be obtained from Miss Eleanor McK. Gibson, secretary, Box 149, University, Va.

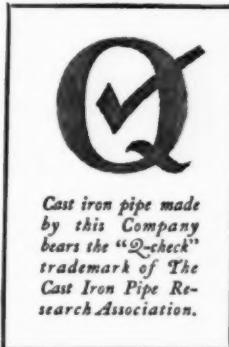
The Murch Brothers Construction Co., St. Louis, submitted low bids for erecting a postoffice building at Asheville, N. C., at \$544,000 for limestone and \$564,000 for sandstone construction.



**\*Test bars machined from deLavaud pipe show an average tensile strength of more than 17 tons per square inch**

TEST bars, machined from various locations along several lengths of deLavaud pipe, were tested for tensile strength by an authoritative and disinterested laboratory. The results gave deLavaud Pipe an average tensile strength of 35,658 lbs. per square inch. This was approximately 100% tensile superiority over pit cast pipe.

In hydraulic bursting tests, deLavaud Pipe also showed a greater strength than pit cast. In these tests, deLavaud Pipe withstood an average internal pressure of more than 3,000 lbs. per square inch or 25% higher reading on the gauge than pit cast pipe.



\* "The tensile strength of bars machined from deLavaud pipe averaged 35,658 lbs. per square inch. This figure is approximately 100% higher than that obtained from good pit cast pipe." (Report of actual test conducted by an outside Testing Laboratory. Details on request.)

The reasons for deLavaud's remarkable strength lie in the dense, close-grained structure of the metal and its freedom from gas bubbles and slag. deLavaud Pipe is made by pouring molten iron into a rapidly revolving cylindrical metal mould. Centrifugal force holds the molten metal against the sides of the mould and drives out impurities with a force 40 times greater than gravity.

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June 20, 1929

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Anniston—Hospital—City votes June 24 on \$75,000 bonds. 5-30

Ala., Birmingham—City Comm. plans bond issue for airport; A. J. Hawkins, City Engr.

Ark., Conway—School—City considering \$200,000 bond issue.

Ark., Jonesboro—Courthouse—Craighead County votes soon on \$250,000 bonds.

Fla., Jacksonville—City, M. W. Bishop, Sec., votes July 25 on \$2,100,000 bonds: \$1,500,000, sewer, drainage improvement; \$600,000, street.

Ga., Nahntua—Courthouse—Brantley County votes in July on \$35,000 bonds. 5-23

Ga., Taylors Creek—Taylors Creek School Dist., Liberty County, voted \$10,000 bonds.

Ky., Louisville—School—City, William B. Harrison, Mayor, considering bond issue; Edward Gottschalk, Pres. Bd. of Education.

Ky., Owensboro—Sewer—City, J. R. Beck, Mayor, receives bids July 5 for \$1,20,000 5% \$1,000 denom. bonds. 11-15-1928

La., Bogalusa—Indebtedness—Washington Parish votes July 23 on bonds to retire indebtedness of \$85,575.

La., Houma—Sewer—City, Edward Wright, Mayor, votes July 15 on \$200,000 bonds.

La., Monroe—School—City, Arnold Bernstein, Mayor, receives bids July 2 for \$800,000 5% bonds.

La., Shreveport—Airport—City, L. E. Thomas, Mayor, plans issuing \$1,500,000 bonds, about July 15 to 20, to acquire land for U. S. Government to use as site for Third Air Wing Attack group. 5-23

La., Vinton—Drainage—Bd. of Commrs., Gravity Drainage Dist. No. 2, Calcasieu Parish, I. Amar, Pres., receives bids July 1 for \$40,000 bonds.

Md., Centerville—School—Queen Anne's County Commrs. Thomas E. Walls, Clk., receive bids July 9 for \$20,000 5% bonds.

Md., Upper Marlboro—Prince George's County Commrs., James C. Blackwell, Clk., rejected bids for \$425,000 4½% road bonds. 6-6

Miss., Bassfield—Bassfield Consolidated School Dist., votes June 28 on \$20,000 bonds.

Miss., Bay Springs—Bay Springs Consolidated School Dist. votes June 29 on \$20,000 bonds.

Miss., Belzoni—Belzoni Consolidated School Dist. voted \$65,000 bonds.

Miss., Brandon—Rankin County Bd. of Supvrs. called election for June 28 on \$25,000 Brandon Consolidated School Dist. bonds.

Miss., Ellisville—Road—Jones County Bd. of Supvrs., W. L. Busby, Clk., receives bids July 3 for \$100,000 bonds. 5-23

Miss., Greenville—City, Fred Schelben, Mayor, votes July 10 on \$370,000 bonds: \$225,000, school; \$125,000, sewer and water improvements; \$20,000, library indebtedness. 5-23

Miss., Greenwood—School—City voted \$30,000 bonds.

Miss., Laurel—Highway—Jones County Bd. of Supvrs. receives bids July 3 for \$100,000 of \$750,000 bond issue.

Miss., McComb—City, X. A. Kramer, Mayor, authorized \$74,000 bond issue paving.

Miss., Meridian—Sewer—City, W. H. White, Clk., plans issuing and selling \$40,000 6% \$1000 denom. bonds.

Miss., Natchez—Airport—City considering \$75,000 notes.

Miss., Natchez—Obligation—City, Lemuel P. Conner, Clk., receives bids July 9 for \$47,500, 5½% bonds.

Miss., Tupelo—Lee County Bd. of Supvrs., T. A. Jenkins, Pres., will sell July 1, \$10,000, 6% Shiloh Consolidated School Dist. bonds.

Miss., Yazoo City—School—Yazoo City Bd. of Supvrs., receives bids July 1 for \$50,000 Satartia Consolidated School bonds. 6-13

Mo., Hannibal—School—City voted \$20,000 bonds.

Mo., Huntville—Road—Randolph County considering \$400,000 bond issue.

Mo., Vandalia—Sewer—City, Martin Barrow, Clk., voted \$41,000 bonds.

N. C., Chapel Hill—Bd. of Trustees Chapel School Dist., W. S. Robertson, Chmn., receives bids June 25, for \$15,000, \$500 denom., not to exceed 6% bonds.

N. C., Charlotte—Anticipation—Mecklenburg County Commrs., R. N. Hood, Chmn., receives bids June 21 for \$1,200,000, \$10,000 denom. courthouse and jail notes.

N. C., Lexington—Davidson County Bd. of Education plans \$82,000 bond issue.

N. C., Morganton—Hospital—City voted \$10,000 bonds.

N. C., Scotland Neck—Funding—Town Commrs. receive bids June 21 for \$65,000, \$1,000 denom. bonds.

Okla., Carnegie—Water—City voted \$50,000 bonds.

Okla., Hammon—City voted \$55,000 bonds: \$27,500, water; \$2,500, fire equipment; \$25,000, sewer.

Okla., Oklahoma City—Airport—City, E. M. Fry, Mgr., plans voting July 30 or in Aug. on \$425,000 bonds; lately noted election June 25; W. W. Small, City Engr. 6-13

S. C., Greenville—City Council considering \$300,000 bond election for repairs at Table Rock Dam and other improvements.

S. C., Laurens—Bond Comm., J. W. Todd, Sec., receives bids June 28 for \$70,000, 5% \$1,000 denom. bonds: \$40,000, street and sidewalk; \$30,000, city hall, police and fire station.

Tenn., Jamestown—Funding—Fentress County, C. A. Williams, Clk., receives bids for \$75,000, 5% \$1,000 denom. coupon bonds; H. N. Wright, County Judge. 5-30

Tenn., Jasper—School—Marion County, C. T. Williamson, County Judge, plans issuing \$75,000 notes.

Tenn., Johnson City—City Comm. plans selling soon, \$510,000 bonds; \$300,000, school; \$125,000, water; \$25,000, sewer; \$60,000, fire dept. stations. 5-30

Tenn., Knoxville—City, Neil Bass, Mgr., plans selling \$365,000 paving bonds.

Tenn., Jonesboro—Water—City votes June 29 on \$170,000 bonds. 4-18

Tex., Alice—Bd. of Trustees, Alice Independent School Dist., Irma Curlott, Clk., plans selling \$125,000 5½% bonds. 6-6

Tex., Alamo Heights, San Antonio—Alamo Heights School Dist. voted \$250,000 bonds.

Tex., Angleton—Angleton Independent School Dist. voted \$80,000 bonds. 5-23

Tex., Beaumont—Jefferson County, B. B. Johnson, County Judge, probably vote between July 15 and Aug. 1 on \$5,500,000 bonds: \$4,500,000, road and bridge improvement; \$1,000,000, courthouse. 4-4

Tex., Brownsville—San Benito-Point Isabel Navigation Dist., Cameron County, plans selling \$15,000 bonds to finance surveys and other preliminary work in dist.; Judge James Q. Louthan, Atty. for Dist.

Tex., Cleburne—Road—Johnson County, Road Dist. No. 4, votes July 13 on \$30,000 bonds.

Tex., Cold Springs—Cold Springs Independent School Dist. voted \$35,000 bonds; Oakhurst School Dist. voted \$35,000; Shephard School Dist. voted 40,000; all San Jacinto County. 6-6

Tex., Coleman—City, E. P. Scarborough, Mayor, votes July 2 on \$175,000 bonds: \$135,000, street; \$40,000, standpipe and filtration plant.

Tex., Crosby—Crosby Independent School Dist. votes July 2 on \$40,000 bonds.

Tex., Edinburg—Hidalgo County Water Control and Improvement Dist. No. 1, D. S. Frazier, Dist. Mgr., plans selling \$1,500,000 bonds.

Tex., Gainesville—Era Independent School Dist., Cooke County, Geo. Canady, Sec., votes June 29 on \$14,000, 5% bonds. 6-13

Tex., Goose Creek—City considering \$150,000 bond election: \$65,000, paving; \$25,000, sewer extension and disposal plant; \$10,000, park; \$50,000, storm sewers.

Tex., Grand Prairie—Park Site—City votes soon on \$20,000 bonds.

Tex., Haskell—Road—Haskell County, Sagerton Dist. voted \$125,000 bonds.

Tex., Highland Park, Dallas—City votes in fall on \$75,000 bonds for library building

and art gallery; R. B. Thomas, City Engr.

Tex., Jacksonville—Paving—City receives bids June 25 for \$100,000 bonds.

Tex., Jasper—Jasper County, Road Dist. No. 6, defeated \$125,000 bond issue; A. S. McKee, County Judge. 5-16

Tex., Lockhart—Road—Caldwell County, Road Dist. No. 1, voted \$300,000 bonds.

Tex., Marshall—City considering bond issue for paving and airport.

Tex., Oakhurst—Oakhurst Consolidated School Dist., San Jacinto County, voted \$35,000 bonds; J. H. Hedrick, Supt. of Schools.

Tex., Rusk—Road—Cherokee County, J. J. Bolton, County Judge, receives bids June 25 for \$1,000,000 5% \$1000 denom. improvement bonds.

Tex., San Antonio—Los Angeles Heights Independent School Dist., Bexar County, voted \$250,000 bonds; G. L. F. Todd, Sec. School Board. 5-23

Tex., Tahoka—Road—Lynn County considering \$1,000,000 bond election.

Va., Fairfax—Sewer, Water—Town Council considering \$100,000 bond election.

W. Va., Charleston—Road—Kanawha County, Big Sandy Dist., considering \$300,000 bond election.

W. Va., Harpers Ferry—Harpers Ferry School Dist., Jefferson County, voted \$112,500 bonds. 6-6

W. Va., Lewisburg—Road—Greenbrier County, Fort Spring Magisterial Dist., votes June 22 on \$145,000 bonds; Paul C. Hogsett, Clk., County Court.

W. Va., Point Pleasant—Road—Mason County Court, John G. Aten, Clk., receives bids June 26, for \$80,000, 6%, Clendenin Road Dist. bonds.

W. Va., Welch—Refunding—City, John W. Blakely, Mayor, voted \$130,000 bonds. 5-23

## Bond Issues Sold

Ala., Gadsden—School—City, H. C. Thomas, Clk., sold \$100,000, 5½%, \$1,000 denom. bonds to General Securities Corp., Birmingham, at 97,0255 and accrued interest.

Fla., West Palm Beach—Refunding—Palm Beach County Commrs. sold \$35,000 5½% bonds to Central Farmers Trust Co. at par.

Ky., Danville—City, W. O. McIntyre, Mayor, sold \$35,000, 5% bonds to Taylor, Wilson & Co., Cincinnati, \$375.45 premium; \$15,000, sewer, \$5,000, water, \$10,000, drainage; \$5,000, city hall improvements. 5-16

Md., Annapolis—State of Maryland, Treasury Dept., John M. Dennis, State Treas., sold \$4,280,000, 4½%, \$1,000 denom. bonds, at 100.21, to syndicate composed of Alexander Brown & Sons, Baltimore, Md.; Brown Bros. & Co., and Harris, Forbes & Co., both New York; \$750,000, bridge; \$750,000, post road; \$2,655,000 special road; \$125,000, Morgan College. 5-16

Md., Baltimore—Sewers, Paving—City, Finance Commrs., August M. Denhard, City Register, sold \$4,630,000 4% loan stock at 96.23 to banking group, including Mercantile Trust Co. of Baltimore; Baker, Watts & Co., Baltimore; Guaranty Co. of New York, Arthur Sinclair, Wallace & Co., Kean, Taylor & Co., R. W. Pressprich & Co., Hannahs, Ballin & Lee, all New York; Wm. R. Compton & Co., St. Louis; R. L. Day & Co. 6-6

Miss., Clarksdale—First Securities Corporation, bonding dept. of First National Bank of Memphis, purchased \$50,000 5¼% bonds at \$455 premium.

Miss., Macon—City sold \$55,000 6% school and fire equipment bonds to Union Planters Bank & Trust Co., Memphis, Tenn., \$1000 premium. 5-9

Mo., Clayton—Road—St. Louis County, P. G. Deuser, Treas., sold \$1,000,000 4½% bonds at 99.33, to syndicate comprising Harris Trust & Savings Bank, Chicago; Mississippi Valley Trust Co., First National Co., both St. Louis, and Boatman's National Co.

N. C., Smithfield—Johnston County Commrs. sold \$326,000, 5% road, bridge and school bonds to National City Co., New York, par, accrued interest and \$631 premium.

N. C., Raleigh—City Commrs., F. E. Culbreth, Mayor, sold \$175,000 5% bonds to Detroit and Security Trust Co., Detroit: \$100,000, refunding; \$75,000, state fair grounds. 6-13

(Continued on page 102.)